



# Open Source Used In AppDynamics\_Cloud\_Topology\_Sch ema\_Service 23.6.0.1

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- 1.281 jackson-datatype-guava 2.15.0-rc3**
  - 1.281.1 Available under license
- 1.282 jackson-module-guice 2.15.0-rc3**
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- 1.283 dropwizard-core 2.0.25**
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- 1.284 common-utils 7.0.5**
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- 1.285 dropwizard-db 2.0.25**
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- 1.286 jackson-jaxrs 2.15.0-rc3**
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- 1.287 dropwizard-lifecycle 2.0.25**
  - 1.287.1 Available under license
- 1.288 groovy-sql 3.0.10**
  - 1.288.1 Available under license
- 1.289 neo4j-java-driver 4.4.1**
  - 1.289.1 Available under license

- 1.290 dropwizard-util 2.1.2**
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- 1.291 gcompat 1.1.0-r1**
  - 1.291.1 Available under license
- 1.292 dropwizard-validation 2.1.2**
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- 1.293 jdbi3-jodatime2 3.21.0**
  - 1.293.1 Available under license
- 1.294 kafka-schema-registry-client 7.0.5**
  - 1.294.1 Available under license
- 1.295 jdbi3-core 3.27.2**
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- 1.296 metrics-jdbi3 4.1.25**
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- 1.297 dropwizard-jdbi3 2.0.25**
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- 1.298 java-client 2.7.18**
  - 1.298.1 Available under license
- 1.299 dropwizard-servlets 2.0.25**
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- 1.300 dropwizard-jersey 2.1.2**
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- 1.301 kafka-protobuf-types 7.0.5**
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- 1.302 kafka-schema-serializer 7.0.5**
  - 1.302.1 Available under license
- 1.303 drop-wizard-metrics 2.0.25**
  - 1.303.1 Available under license
- 1.304 musl-obstack 1.2.3-r2**
  - 1.304.1 Available under license
- 1.305 dropwizard-request-logging 2.0.25**
  - 1.305.1 Available under license
- 1.306 jdbi3-guava 3.21.0**
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- 1.307 ucum 1.0.3**
  - 1.307.1 Available under license
- 1.308 dropwizard-jackson 2.1.2**
  - 1.308.1 Available under license
- 1.309 kafka-protobuf-serializer 7.0.5**

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- 1.314 kafka-avro-serializer 7.0.5**
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- 1.318 jdbc3-jackson2 3.27.2**
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- 1.319 libc-utils 0.7.2-r5**
  - 1.319.1 Available under license
- 1.320 ssl-client 1.36.0-r9**
  - 1.320.1 Available under license
- 1.321 aop-alliance 2.6.1**
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- 1.322 jackson-annotations 2.15.1**
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- 1.323 jackson-databind 2.15.1**
  - 1.323.1 Available under license
- 1.324 jackson 2.15.1**
  - 1.324.1 Available under license
- 1.325 jackson-dataformat-yaml 2.15.1**
  - 1.325.1 Available under license
- 1.326 alpine-baselayout-data 3.4.3-r1**
  - 1.326.1 Available under license
- 1.327 opentelemetry-sdk 1.24.0**
  - 1.327.1 Available under license
- 1.328 opentelemetry-semconv 1.24.0-alpha**
  - 1.328.1 Available under license

## 1.329 opentelemetry-sdk-extension-autoconfigure-spi 1.24.0

1.329.1 Available under license

## 1.330 scanelf 1.3.7-r1

1.330.1 Available under license

## 1.331 libstdc++ 12.2.1\_git20220924-r10

1.331.1 Available under license

## 1.332 libgcc 12.2.1\_git20220924-r10

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## 1.333 openssl 3.1.1-r1

1.333.1 Available under license

## 1.334 libssl3 3.1.1-r1

1.334.1 Available under license

## 1.335 libcrypto3 3.1.1-r1

1.335.1 Available under license

## 1.336 lcms 2.14-r0

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# 1.1 libjpeg 6b

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## 1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net) to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.



## DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES      Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
RELATED SOFTWARE Other stuff you should get.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO            Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc     How to configure and install the IJG software.  
usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1              Unix-style man pages for programs (same info as usage.doc).  
wizard.doc      Advanced usage instructions for JPEG wizards only.  
change.log      Version-to-version change highlights.

Programmer and internal

documentation:

libjpeg.doc     How to use the JPEG library in your own programs.  
example.c       Sample code for calling the JPEG library.  
structure.doc   Overview of the JPEG library's internal structure.  
filelist.doc    Road map of IJG files.  
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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## REFERENCES

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We

highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3,

a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory <graphics/jpeg>. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net>

release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,  
notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own,

creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).



# 1.2 javax-inject 1

## 1.2.1 Available under license :

Apache License

Version 2.0, January 2004

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jar/org/jetbrains/annotations/Nullable.java
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## 1.16 jsr311-api 1.1.1

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## 1.17 hystrix-core 1.5.12

# 1.18 jaxb-api 2.3.1

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## 1.19 cglib 3.2.0

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/opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-  
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 \* /opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkerPool.java  
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 jar/com/lmax/disruptor/util/DaemonThreadFactory.java  
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 jar/com/lmax/disruptor/EventTranslatorThreeArg.java  
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 jar/com/lmax/disruptor/WaitStrategy.java  
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Found in path(s):

\* /opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventReleaser.java

\* /opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-  
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\* /opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-

jar/com/lmax/disruptor/InsufficientCapacityException.java

\* /opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Cursored.java

\*

/opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-

jar/com/lmax/disruptor/dsl/ProducerType.java

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jar/com/lmax/disruptor/SequenceGroups.java

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jar/com/lmax/disruptor/DataProvider.java

\* /opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-

jar/com/lmax/disruptor/FixedSequenceGroup.java

\* /opt/cola/permits/1005594541\_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequencer.java

## 1.27 hamcrest 1.3

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```
* /opt/ws_local/PERMITS_SQL/1041749269_1590960641.82/0/feign-slf4j-8-18-0-sources-  
jar/feign/slf4j/Slf4jLogger.java
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* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Types.java  
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* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/QueryMap.java
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```
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/codec/DecodeException.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Util.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/auth/BasicAuthRequestInterceptor.java
*
/opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/MethodMetadata.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/codec/EncodeException.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/FeignException.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Contract.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/RetryableException.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Feign.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/codec/ErrorDecoder.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Client.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Response.java
*
/opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/RequestTemplate.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/auth/Base64.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Request.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/ReflectiveFeign.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
```

jar/feign/codec/StringDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1041742352\_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Logger.java  
\* /opt/ws\_local/PERMITS\_SQL/1041742352\_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Retryer.java  
\* /opt/ws\_local/PERMITS\_SQL/1041742352\_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/Target.java  
\* /opt/ws\_local/PERMITS\_SQL/1041742352\_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/RequestInterceptor.java

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\* /opt/ws\_local/PERMITS\_SQL/1041742352\_1590954355.62/0/feign-core-8-18-0-sources-jar/feign/SynchronousMethodHandler.java

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jar/feign/codec/Encoder.java
* /opt/ws_local/PERMITS_SQL/1041742352_1590954355.62/0/feign-core-8-18-0-sources-
jar/feign/codec/Decoder.java
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1041746349_1590960627.05/0/feign-jackson-8-18-0-sources-
jar/feign/jackson/JacksonDecoder.java
* /opt/ws_local/PERMITS_SQL/1041746349_1590960627.05/0/feign-jackson-8-18-0-sources-
jar/feign/jackson/JacksonEncoder.java
```

## 1.34 feign-jaxrs 8.18.0

### 1.34.1 Available under license :

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1041740744\_1590954450.45/0/feign-jaxrs-8-18-0-sources-jar/feign/jaxrs/JAXRSContract.java

## 1.35 jedis 3.3.0

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1047560748\_1590497249.67/0/jedis-3-3-0-sources-jar/redis/clients/jedis/util/RedisInputStream.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1047560748\_1590497249.67/0/jedis-3-3-0-sources-jar/redis/clients/jedis/util/MurmurHash.java

# 1.36 error\_prone\_annotations 2.3.4

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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/Var.java
*
/opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/RequiredModifiers.java
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\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotCall.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java  
\*

/opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java

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\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/NoAllocation.java  
\*

\*

/opt/ws\_local/PERMITS\_SQL/1059106420\_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LockMethod.java  
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/FormatString.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompatibleWith.java
*
/opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/FormatMethod.java
```

## 1.37 reactor-core 3.2.11.RELEASE

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/OperatorDisposables.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/context/Context2.java
  - \*
  - /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxDelaySequence.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/BlockingOptionalMonoSubscriber.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxIndexFuseable.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxLimitRequest.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/context/Context5.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoSingleMono.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/context/Context3.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxIndex.java
  - \*
  - /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/OnNextFailureStrategy.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/context/Context4.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoExpand.java
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/annotation/Nullable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/annotation/NonNullApi.java

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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxCreate.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCollect.java

\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCreate.java

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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/ExecutorScheduler.java

\*

/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoAny.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoLogFuseable.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/Disposable.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/InnerConsumer.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/BaseSubscriber.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoHandleFuseable.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSample.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoNever.java

\*

/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelConcatMap.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/context/Context.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelMap.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMergeSequential.java

```

* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoDelayElement.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxOnErrorResume.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoSource.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoReduceSeed.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/scheduler/ParallelScheduler.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoPublishMulticast.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/ConnectableFlux.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoFilterFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxFilterWhen.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/ParallelSource.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxNever.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoTakeLastOne.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxSkipLast.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoSourceFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxTake.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoDoFinallyFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxExpand.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxHandleFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxWindowTimeout.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoTimeout.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxRepeatPredicate.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/package-info.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-

```

```

jar/reactor/util/function/package-info.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxPublishMulticast.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxTakeLastOne.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxArray.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxLift.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/ParallelMergeSequential.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/DrainUtils.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxConcatArray.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/util/function/Tuple2.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoMaterialize.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoCancelOn.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/Scannable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxDistinctFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxOnBackpressureDrop.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoFlatMapMany.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/BlockingFirstSubscriber.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxFlattenIterable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxErrorOnRequest.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoDefer.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxRepeat.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxTakeFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoToCompletableFuture.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/ParallelFilter.java

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* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxSkipUntilOther.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/ConnectableFluxOnAssembly.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/package-info.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoSwitchIfEmpty.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxDistinctUntilChanged.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxWithLatestFrom.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoSubscribeOn.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoPeek.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/Fuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoSubscribeOnCallable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/BlockingLastSubscriber.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxMap.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxContextStart.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/ParallelPeek.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxDoFinallyFuseable.java
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/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxFirstEmitting.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoOperator.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/adapters/package-info.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxSourceMonoFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoReduce.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/DirectProcessor.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxIterable.java
*

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/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoRepeat.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoRetryWhen.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxRetryPredicate.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxOnAssembly.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxJust.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoIgnoreElements.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxRefCount.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoEmpty.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoName.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMapFuseable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoRepeatWhen.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/ExecutorServiceWorker.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoAll.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/SignalLogger.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoDefaultIfEmpty.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxNameFuseable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoPublishOn.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoJust.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/Logger.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/InnerOperator.java  
\*

/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxInterval.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxLog.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/function/Tuple5.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoDetach.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoDelay.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/EventLoopProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/SynchronousSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxScanSeed.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoNext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxOnBackpressureBufferStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/context/Context0.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxCallableOnAssembly.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxCallable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxFlatMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoRetryPredicate.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/ElasticScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMaterialize.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoPeekFuseable.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxElapsed.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSource.java  
\*



/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoFirst.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSubscribeOnCallable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMerge.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxOnBackpressureLatest.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxHide.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoSingle.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxZipIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoLog.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxRetry.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelArraySource.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxName.java  
\*  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/GroupedFlux.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxWindowBoundary.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/concurrent/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/Hooks.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/SignalType.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoSourceFlux.java  
\*

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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSampleFirst.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoUsing.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelFlux.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/Scheduler.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelFluxHide.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/InnerProducer.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxUsing.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelFlatMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxHandle.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCallableOnAssembly.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSkipWhile.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoFilterWhen.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxDoFinally.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoFromPublisher.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxRange.java  
\*

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 \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
 jar/reactor/core/publisher/ParallelReduceSeed.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
 jar/reactor/core/publisher/MonoHandle.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
 jar/reactor/core/publisher/FluxSkipUntil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
 jar/reactor/util/function/TupleExtensions.kt  
 \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
 jar/reactor/core/scheduler/PeriodicSchedulerTask.java  
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 jar/reactor/core/publisher/BlockingMonoSubscriber.java  
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 /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
 jar/reactor/core/publisher/FluxRepeatWhen.java  
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 jar/reactor/core/publisher/FluxPeek.java  
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 jar/reactor/core/publisher/StrictSubscriber.java  
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 jar/reactor/core/publisher/MonoDematerialize.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxDefaultIfEmpty.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoTakeUntilOther.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxRefCountGrace.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/function/Tuple4.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/ImmediateScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxError.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxLogFuseable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxSubscribeOnValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/function/Tuple6.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoStreamCollector.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoCurrentContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxScan.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxFromMonoOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxTakeUntilOther.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/function/Tuple7.java  
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jar/reactor/core/publisher/SerializedSubscriber.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/ParallelFluxOnAssembly.java  
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jar/reactor/core/publisher/MonoDoFinally.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/TopicProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
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jar/reactor/core/publisher/DelegateProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoError.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoRepeatPredicate.java  
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/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxGenerate.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxMapSignal.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/Exceptions.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/ParallelMergeReduce.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/ParallelMergeSort.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
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jar/reactor/core/publisher/Signal.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/util/function/Tuple3.java

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* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoElapsed.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/ParallelFluxName.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/util/concurrent/Queues.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoOnErrorResume.java
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jar/reactor/core/publisher/MonoSubscriberContext.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/BufferOverflowStrategy.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoSourceFluxFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxDematerialize.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoCallable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
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jar/reactor/core/publisher/FluxZip.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
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* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
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jar/reactor/core/publisher/FluxJoin.java
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jar/reactor/core/publisher/FluxAutoConnectFuseable.java  
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jar/reactor/core/publisher/FluxConcatIterable.java  
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jar/reactor/core/publisher/FluxSwitchIfEmpty.java  
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jar/reactor/core/publisher/BlockingSingleSubscriber.java  
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jar/reactor/core/publisher/MonoSupplier.java  
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jar/reactor/core/publisher/FluxStream.java

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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/CoreSubscriber.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/context/Context1.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/WorkerTask.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/SchedulerTask.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/SingleWorkerScheduler.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/SignalPeek.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelDoOnEach.java

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```
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoErrorSupplied.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/SourceProducer.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxErrorSupplied.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxLiftFuseable.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/util/Metrics.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/GroupedLiftFuseable.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/scheduler/ReactorThreadFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/Traces.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ParallelMergeOrdered.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoDoOnEach.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMergeOrdered.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoLiftFuseable.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/GroupedLift.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ConnectableLiftFuseable.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMetricsFuseable.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxUsingWhen.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/ConnectableLift.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoUsingWhen.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/QueueDrainSubscriber.java
- \* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoDoOnEachFuseable.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxDoOnEachFuseable.java

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* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoDoFirstFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/MonoDoFirst.java
*
/opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxDoFirstFuseable.java
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
jar/reactor/core/publisher/FluxDoFirst.java
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```
* /opt/ws_local/PERMITS_SQL/1068460090_1594389779.31/0/reactor-core-3-2-11-release-sources-
```

jar/reactor/core/scheduler/InstantPeriodicWorkerTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoMetricsFuseable.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/scheduler/NonBlocking.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoExtensions.kt  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoCompletionStage.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoZip.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoFunctions.kt  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/util/concurrent/MpscLinkedQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/scheduler/SchedulerMetricDecorator.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoWhen.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxFilterFuseable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoCacheTime.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxReplay.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxBufferBoundary.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxOnBackpressureBufferTimeout.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxSwitchOnFirst.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/MonoPeekTerminal.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/Operators.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/FluxBufferPredicate.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-  
jar/reactor/core/publisher/ReplayProcessor.java

\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/Mono.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxPublish.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxCombineLatest.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxBufferTimeout.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/EmitterProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxWindowPredicate.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoBridges.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxRetryWhen.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxConcatMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxExtensions.kt  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/MonoProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/FluxBufferWhen.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068460090\_1594389779.31/0/reactor-core-3-2-11-release-sources-jar/reactor/core/publisher/RingBuffer.java

## 1.38 jackson 2.10.1

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## 1.41 swagger 1.6.2

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## 1.42 jctools-core 3.1.0

### 1.42.1 Available under license :

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```
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xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">  
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  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
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License, Version 2.0</name>
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  <tag>HEAD</tag>
</scm>

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  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>

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  </developer>
</developer>
  <url>https://github.com/kay</url>
</developer>
</developer>
  <url>https://github.com/franz1981</url>
</developer>
</developers>

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  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

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  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

#### Found

in path(s):

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\*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpMCAtomicArrayQueue.java
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- \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
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- \*
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 jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/maps/NonBlockingIdentityHashMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/BaseLinkedQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/util/InternalAPI.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/maps/NonBlockingHashSet.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/util/Pow2.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/spec/ConcurrentQueueSpec.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/SpsscChunkedAtomicArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/maps/ConcurrentAutoTable.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscUnboundedXaddChunk.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-

```

jar/org/jctools/queues/LinkedQueueNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/PortableJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingSetInt.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/QueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/package-info.java

```



\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpseLinkedListArrayQueue.java

## 1.43 xerces-j 2.12.2

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 */
```

Found in path(s):

```
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/subscriptions/BasicQueueSubscription.java  
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Completable.java  
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/disposables/Disposable.java  
*  
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableFlatMapMaybe.java  
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableSkipWhile.java  
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableTakeUntilPredicate.java  
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
```



```

jar/io/reactivex/internal/operators/flowable/FlowableAmb.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeZipArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/FuseToMaybe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/disposables/RunnableDisposable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableObserveOn.java
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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableTimeoutTimed.java
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jar/io/reactivex/internal/operators/maybe/MaybeUsing.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFromUnsafeSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableMergeWithMaybe.java
*
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jar/io/reactivex/internal/operators/single/SingleNever.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/SubscriberResourceWrapper.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/ObservableEmitter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/disposables/Disposables.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableRetryBiPredicate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/subscribers/TestSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelFlatMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeEmpty.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/ObservableSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableRefCount.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/disposables/DisposableHelper.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableThrottleFirstTimed.java

```

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTimer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleZipIterable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/FuseToObservable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Flowable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/functions/Functions.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableLimit.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableEmpty.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableScanSeed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFlatMapIterableFlowable.java
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jar/io/reactivex/internal/operators/observable/ObservableRetryPredicate.java
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jar/io/reactivex/internal/schedulers/NonBlockingThread.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFlatMapPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeTimeoutMaybe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/functions/LongConsumer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSkipLastTimed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeToPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/BlockingFlowableLatest.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableFromRunnable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeCount.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFromCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDistinct.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableRetryWhen.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/BaseTestConsumer.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/disposables/CompositeDisposable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFromIterable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFlatten.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableObserveOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDetach.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/parallel/ParallelFlowable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/parallel/ParallelFailureHandling.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/BlockingObservableMostRecent.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeCreate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDoAfterNext.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableWindowBoundarySelector.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/ResourceCompletableObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableConcatMapCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelConcatMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableMergeWithSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeConcatArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelFromPublisher.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableReduce.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFromFuture.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/BlockingLastSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDebounce.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableTimer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/subjects/SingleSubject.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTakeUntilPredicate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFlatMapCompletableCompletable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSerialized.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/FlowableOperator.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableCountSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableLastSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeJust.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDoOnError.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableMaterialize.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableLastMaybe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableMergeWithCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/AppendOnlyLinkedListArraylist.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/HasUpstreamObservableSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableTakeLastTimed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservablePublishSelector.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableDefer.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleZipArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeConcatArrayDelayError.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDoOnEach.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/ForEachWhileObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Notification.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/DeferredScalarObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableAutoConnect.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelMapTry.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableLift.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleFromPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableWindowBoundarySupplier.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/BasicFuseableConditionalSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableCache.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/CompletableTransformer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/BiConsumerSingleObserver.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeOnErrorReturn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/SubscriberCompletableObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableScalarXMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDebounceTimed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/FuseToFlowable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableMergeWithMaybe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/flowables/GroupedFlowable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/HasUpstreamPublisher.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableWindowBoundary.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/schedulers/ScheduledRunnable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Function6.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableRetryPredicate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTimeInterval.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableConcatWithSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTakeLastTimed.java

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*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/ArrayListSupplier.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/BlockingHelper.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/CallbackCompletableObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSequenceEqual.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Observable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableNever.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/BlockingMultiObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/disposables/ListCompositeDisposable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableCollect.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleObserveOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableIgnoreElements.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFlatMapNotification.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFromCallable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/DisposableLambdaObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableThrottleFirstTimed.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFlattenIterable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableIntervalRange.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeDelaySubscriptionOtherPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableRepeatWhen.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/parallel/ParallelTransformer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/HasUpstreamSingleSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeCache.java
*

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/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableSkipUntil.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/observers/BasicIntQueueDisposable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/BlockingFlowableNext.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/util/NotificationLite.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/observers/DisposableObserver.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Single.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableHide.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/single/SingleDetach.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/BiConsumer.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/subscribers/StrictSubscriber.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/util/EndConsumerHelper.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableFlatMap.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableWindowBoundarySupplier.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/util/ExceptionHelper.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableDoOnEach.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/completable/CompletableFromPublisher.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/util/ObservableQueueDrain.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/SchedulerMultiWorkerSupport.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/single/SingleCache.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/BlockingObservableNext.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableSingleMaybe.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableIgnoreElementsCompletable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableReduceWithSingle.java  
\*

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/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableGroupBy.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/AbstractFlowableWithUpstream.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeTakeUntilMaybe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTakeLastOne.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/annotations/Beta.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/subjects/ReplaySubject.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFlatMapSingle.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeDelayWithCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeDoFinally.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/MaybeOperator.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/LambdaConsumerIntrospection.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableConcatMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableAll.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableRetryWhen.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observables/ConnectableObservable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableEmpty.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleFlatMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTakeWhile.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/disposables/SerialDisposable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeError.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDoAfterTerminate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/EmptyComponent.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableTake.java
*

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/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableOnBackpressureBufferStrategy.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableWithLatestFromMany.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/MaybeOnSubscribe.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableJust.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/observables/GroupedObservable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableDoOnLifecycle.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/subscriptions/AsyncSubscription.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/single/SingleToObservable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableSampleTimed.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableBufferExactBoundary.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableJust.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableRetryBiPredicate.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableJoin.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/maybe/MaybeEqualSingle.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/observers/BlockingBaseObserver.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableCollectSingle.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableCollect.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/subscribers/SinglePostCompleteSubscriber.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/fuseable/ScalarCallable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableMergeWithCompletable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/maybe/MaybeErrorCallable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/subscriptions/BasicIntQueueSubscription.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableDoFinally.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeLift.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFromPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableWindowBoundarySelector.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableRepeat.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTakeUntil.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableElementAtSingle.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/SimpleQueue.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableBufferExactBoundary.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFlatMapCompletableCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/exceptions/ProtocolViolationException.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableUnsubscribeOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableAll.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDoOnSubscribe.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/subscribers/ResourceSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableWithLatestFrom.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSubscribeOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeIsEmptySingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/ConditionalSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableBlockingSubscribe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelDoOnNextTry.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/subjects/UnicastSubject.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableHide.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/internal/operators/completable/CompletableDoOnEvent.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleFlatMapIterableFlowable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/flowables/ConnectableFlowable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDebounce.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDelayWithCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/annotations/CheckReturnValue.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscriptions/DeferredScalarSubscription.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableMergeWithSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableWindow.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableCache.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeToObservable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDelay.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/schedulers/TestScheduler.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableCreate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/OpenHashSet.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableAllSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableReduceMaybe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSkip.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Consumer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/HashMapSupplier.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableFromObservable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/processors/UnicastProcessor.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFlatMapCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/internal/operators/observable/ObservableSwitchIfEmpty.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/completable/CompletableConcat.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/subscribers/SafeSubscriber.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableMap.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/maybe/MaybeDefer.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/completable/CompletableDoFinally.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/maybe/MaybeFromFuture.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/fuseable/package-  
info.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableRange.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableReduceSeedSingle.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/parallel/ParallelSortedJoin.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableSkipLast.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableReduceSeedSingle.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableZipIterable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/single/SingleAmb.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/single/SingleMap.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/ObservableConverter.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/plugins/RxJavaPlugins.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/maybe/MaybeDetach.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableRepeat.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/subjects/PublishSubject.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/schedulers/ImmediateThinScheduler.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/CompletableOperator.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/single/SingleTakeUntil.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/annotations/SchedulerSupport.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/MergerBiFunction.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscriptions/ScalarSubscription.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/CompletableOnSubscribe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDoOnEvent.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/FlowableTransformer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/FlowableSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Observer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/DeferredScalarDisposable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybePeek.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/BlockingFirstObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleResumeNext.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/DisposableMaybeObserver.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscriptions/ArrayCompositeSubscription.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/ForEachWhileSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Function.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableConcatMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/QueueDrain.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableRangeLong.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/BlockingObservableLatest.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableLift.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableToFlowable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeIgnoreElement.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/internal/operators/completable/CompletableCreate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableScan.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/ConnectConsumer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSerialized.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/SimplePlainQueue.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelReduceFull.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/MaybeSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeDelayOtherPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Function9.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/MaybeTransformer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSequenceEqualSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSwitchMap.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/processors/AsyncProcessor.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeSwitchIfEmpty.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableZip.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableCount.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableBufferBoundarySupplier.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/processors/ReplayProcessor.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableScan.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/CompletableObserver.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableFromUnsafeSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableZipIterable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSingleMaybe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFilterSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/exceptions/OnErrorNotImplementedException.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleLift.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleInternalHelper.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableDisposeOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/inner/InnerQueuedObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelFromArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableTimeout.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSwitchMap.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableEmpty.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFlatMapSingleElement.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFromIterable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletablePeek.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscriptions/SubscriptionArbiter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/SingleEmitter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleToFlowable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableInternalHelper.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableBuffer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableConcatWithMaybe.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/exceptions/MissingBackpressureException.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObserverResourceWrapper.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDelaySubscriptionOther.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDelaySubscriptionOther.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableElementAt.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableAllSingle.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableWindow.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/ErrorMessage.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/exceptions/UndeliverableException.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFlatMapIterableObservable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableConcatMapPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeToSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelReduce.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableReplay.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSampleTimed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDoAfterNext.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscriptions/EmptySubscription.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/disposables/ObserverFullArbiter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/BasicFuseableObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableAmb.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableOnErrorNext.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelMap.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeOnErrorComplete.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableConcatArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/HasUpstreamMaybeSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSequenceEqualSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/ResumeSingleObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableToSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/internal/operators/observable/ObservableBlockingSubscribe.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/schedulers/Schedulers.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSingleSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/QueueDrainSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableBuffer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/subscribers/SerializedSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/SingleSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableBufferBoundary.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableReduceMaybe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDoOnDispose.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/ResourceSingleObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFilter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeTimeoutPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableInternalHelper.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/SuppressAnimalSniffer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableFromCallable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Scheduler.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableWindowTimed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableError.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableBufferTimed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/InnerQueuedObserverSupport.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/disposables/DisposableContainer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableOnErrorReturn.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableElementAtSingle.java

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\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableCache.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/util/AtomicThrowable.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableFlatMapMaybe.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/ObservableOnSubscribe.java  
 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/BackpressureStrategy.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableMaterialize.java  
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 jar/io/reactivex/internal/operators/observable/ObservableInterval.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableFromFuture.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Cancellable.java  
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 jar/io/reactivex/FlowableOnSubscribe.java  
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 jar/io/reactivex/internal/operators/single/SingleFromCallable.java  
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 jar/io/reactivex/internal/operators/observable/ObservableDistinctUntilChanged.java  
 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 jar/io/reactivex/internal/queue/MpscLinkedQueue.java  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableDistinct.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/annotations/Nullable.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableDelay.java  
 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableConcatWithCompletable.java

\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowablePublish.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/FlowableEmitter.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/completable/CompletableErrorSupplier.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableToList.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/single/SingleTimer.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Function8.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
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 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableConcatMapEager.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/schedulers/Timed.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/ObservableTransformer.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/maybe/MaybeAmb.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableGroupBy.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/MaybeObserver.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableRangeLong.java  
 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableWithLatestFrom.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/maybe/MaybeSwitchIfEmptySingle.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/internal/operators/single/SingleFlatMapCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableMapNotification.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableIgnoreElements.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableToList.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableOnBackpressureLatest.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeDoOnEvent.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeHide.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSkip.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableConcatWithSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/QueueSubscription.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableError.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDoFinally.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFromAction.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/disposables/ActionDisposable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/DeferredScalarSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDoOnLifecycle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/disposables/SubscriptionDisposable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeDelay.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/SafeObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableDetach.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/InnerQueuedSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableAny.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTakePublisher.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleTimeout.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/BlockingSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeConcatIterable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableHide.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableConcatMapEager.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableToObservable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleUnsubscribeOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDefer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelPeek.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableNever.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/FlowableConverter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/SingleConverter.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSampleWithObservable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/processors/FlowableProcessor.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableConcatWithCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeObserveOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableTimeInterval.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableToListSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeNever.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSequenceEqual.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelRunOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableRepeatUntil.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDetach.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/parallel/ParallelFlowableConverter.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Predicate.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/disposables/ArrayCompositeDisposable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableConcatWithMaybe.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/subscribers/DisposableSubscriber.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableBufferTimed.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableCollectSingle.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/maybe/MaybeOnErrorNext.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/observers/DefaultObserver.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/completable/CompletableMergeDelayErrorIterable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/observers/ConsumerSingleObserver.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/SingleScheduler.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/AbstractObservableWithUpstream.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/subjects/CompletableSubject.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/maybe/MaybeZipIterable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/IntFunction.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableScanSeed.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/SingleOperator.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/maybe/MaybeFilter.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/maybe/MaybeFlatMapSingle.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableConcatMapEagerPublisher.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/single/SingleDelayWithPublisher.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableWindowTimed.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/observers/EmptyCompletableObserver.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/processors/BehaviorProcessor.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeToFlowable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableIgnoreElementsCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/SingleTransformer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSkipUntil.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Function5.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleOnErrorReturn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/BlockingFirstSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleUsing.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFlatMapBiSelector.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/subjects/AsyncSubject.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSkipWhile.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Function4.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeFlatMapCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/BasicQueueDisposable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelFilter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableInterval.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableOnBackpressureDrop.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableFromSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelFilterTry.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDelayWithObservable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDefer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableBufferBoundarySupplier.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/internal/operators/observable/ObservableSkipLastTimed.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/completable/CompletableSubscribeOn.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableTakeLast.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableSingleSingle.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableElementAtMaybe.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/maybe/MaybeFromRunnable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/annotations/BackpressureSupport.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableCombineLatest.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/subjects/SerializedSubject.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/single/SingleFromUnsafeSource.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/maybe/MaybeContains.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableFromCallable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableFilter.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableTakeUntil.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/BlockingFlowableIterable.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableSwitchIfEmpty.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservablePublish.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/completable/CompletableResumeNext.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/parallel/ParallelCollect.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableCount.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/maybe/MaybeUnsubscribeOn.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/maybe/MaybeCallbackObserver.java  
\*



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/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDelay.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/BiFunction.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDematerialize.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleJust.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/processors/PublishProcessor.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/LinkedList.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDoAfterSuccess.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableOnErrorReturn.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/SerializedObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableTakeLastOne.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableSkipLast.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/BackpressureHelper.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableAutoConnect.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeMergeArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableRefCount.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Function7.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableConcatArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/SorterFunction.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleSubscribeOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTake.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/queue/SpscArrayQueue.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/LambdaObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/BlockingObservableIterable.java
*

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/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/disposables/ReferenceDisposable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeIsEmpty.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/MaybeConverter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFromArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/LambdaSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/queue/SpscLinkedListArrayQueue.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableDistinctUntilChanged.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/disposables/CancellableDisposable.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/disposables/SequentialDisposable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/annotations/NonNull.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/TestObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/QueueFuseable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableFromAction.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/BiPredicate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/DisposableCompletableObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFlatMap.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/annotations/Experimental.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/ListAddBiConsumer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableAnySingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFlatMapCompletable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableMapNotification.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeTakeUntilPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Emitter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableTimeout.java
*

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/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableGenerate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableNever.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeSubscribeOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleDoOnSuccess.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableUsing.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/VolatileSizeArrayList.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableTimer.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/SingleOnSubscribe.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/FullArbiterObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSamplePublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/exceptions/Exceptions.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFlatMapSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleHide.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Action.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/Maybe.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableTimeoutTimed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableMergeIterable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/Function3.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableZip.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableCountSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableMerge.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDoFinally.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/processors/SerializedProcessor.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/subjects/Subject.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/AbstractMaybeWithUpstream.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeDoAfterSuccess.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/observers/DisposableSingleObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleFlatMapIterableObservable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleCreate.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableDelay.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableReduceWithSingle.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFromObservable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/functions/ObjectHelper.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/parallel/ParallelJoin.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/functions/BooleanSupplier.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/schedulers/DisposeOnCancel.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableWindowBoundary.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/MaybeEmitter.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFlattenIterable.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableAny.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableUsing.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableMergeDelayErrorArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/FutureSingleObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableSubscribeOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/BlockingBaseSubscriber.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableObserveOn.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableFromPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableScalarXMap.java

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\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableFromCallable.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableElementAt.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/CompletableSource.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/observers/BlockingLastObserver.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/maybe/MaybeIgnoreElementCompletable.java  
 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableRange.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableAnySingle.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableRepeatWhen.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableLastMaybe.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/BlockingFlowableMostRecent.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/fuseable/QueueDisposable.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableUnsubscribeOn.java  
 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/maybe/MaybeUnsafeCreate.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableCombineLatest.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableBufferBoundary.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/SingleObserver.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/observable/ObservableUsing.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/flowable/FlowableCreate.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/single/SingleFlatMapMaybe.java  
 \*  
 /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/single/SingleEquals.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/subscriptions/BooleanSubscription.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/disposables/EmptyDisposable.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
 jar/io/reactivex/internal/operators/completable/CompletableAmb.java  
 \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/internal/operators/flowable/FlowableDebounceTimed.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/CompletableConverter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/schedulers/NewThreadWorker.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableToListSingle.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/fuseable/HasUpstreamCompletableSource.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/BlockingObserver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/completable/CompletableMergeArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/annotations/BackpressureKind.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/maybe/MaybeTimer.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableFromArray.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/observers/QueueDrainObserver.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/single/SingleError.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/subjects/BehaviorSubject.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableIntervalRange.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableDematerialize.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/observable/ObservableError.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableMapPublisher.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/subscribers/BasicFuseableSubscriber.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/schedulers/RxThreadFactory.java
*
/opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/CompletableEmitter.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/subjects/MaybeSubject.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/util/BlockingIgnoringReceiver.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-
jar/io/reactivex/internal/operators/flowable/FlowableWithLatestFromMany.java
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-

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jar/io/reactivex/internal/operators/flowable/FlowableGenerate.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableOnErrorNext.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/single/SingleContains.java  
\*  
/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/completable/CompletableLift.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableElementAtMaybe.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/flowable/FlowableOnBackpressureBuffer.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableTakeLast.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/ObservableOperator.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/completable/CompletableConcatIterable.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/single/SingleDelayWithSingle.java  
\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/subscribers/FutureSubscriber.java  
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- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/observable/ObservableJoin.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/subjects/package-info.java
- \*
- /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/functions/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/exceptions/CompositeException.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowablePublishMulticast.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/SchedulerPoolFactory.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/ComputationScheduler.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/plugins/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/IOScheduler.java
- \*
- /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/exceptions/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/disposables/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/observers/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/flowables/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/processors/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/operators/flowable/FlowableGroupJoin.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/TrampolineScheduler.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/NewThreadScheduler.java
- \*
- /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/schedulers/package-info.java
- \* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/annotations/package-



info.java

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* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/subscribers/package-  
info.java  
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/internal/operators/observable/ObservableGroupJoin.java  
* /opt/cola/permits/1118999868_1608681835.21/0/rxjava-2-1-10-sources-  
jar/io/reactivex/BackpressureOverflowStrategy.java  
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core/src/main/java/org/jctools/util/Pow2.java
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```

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\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/SchedulerWhen.java

\* /opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/ScheduledDirectPeriodicTask.java

\*

/opt/cola/permits/1118999868\_1608681835.21/0/rxjava-2-1-10-sources-jar/io/reactivex/internal/schedulers/AbstractDirectTask.java

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## 1.48 guava 30.1-jre

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/MoreObjects.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Quantiles.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscriber.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FluentFuture.java  
\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Java8Usage.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java  
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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharSequenceReader.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
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jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/IndexedImmutableSet.java
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/MoreExecutors.java

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Found in path(s):

- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeySetMultimap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyListMultimap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AllEqualOrdering.java
- \*
- /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedListIterator.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredMultimap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashSet.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactLinkedHashMap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredSetMultimap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashMap.java
- \*
- /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableEnumMap.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableList.java



\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingDeque.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RangeMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingNavigableSet.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractNavigableMap.java  
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\*/  
/\*\*

\* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular  
\* version.  
\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableEntry.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Tables.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Serialization.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/StandardTable.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableListMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/PeekingIterator.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapValues.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Collections2.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CollectPreconditions.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Platform.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Range.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableMapKeySet.java

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/MoreFiles.java
```

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 */
```

```
/**
 * Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

jar/com/google/common/primitives/ShortsMethodsForWeb.java

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\* This method was rewritten in Java from an intermediate step of the Murmur hash function in

\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

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Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/base/SmallCharMatcher.java

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```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharSink.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/Stats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/html/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/PairedStatsAccumulator.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/SipHashFunction.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteSource.java

```

```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractByteHasher.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CartesianList.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/xml/package-
info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ServiceManager.java
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Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/graph/AbstractBaseGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/graph/BaseGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/graph/Traverser.java

\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ClosingFuture.java

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/\*\*

\* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain  
\* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available  
\* under GWT but with a slightly different signature.

\*

\* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler  
wouldn't recognize

\* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT  
\* compiler to autostrip the normal server method in order to expose the special, inherited GWT  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-



jar/com/google/common/util/concurrent/Partially.java

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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
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disclaims copyright to this source code.
 */
```

Found in path(s):

`/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Hashing.java`

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Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MutableGraph.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/Network.java
```

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Reflection.java
```

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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LongAdder.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/LongAdder.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Striped64.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Striped64.java

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- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Shorts.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Doubles.java
- \*
- /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java
- \* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CharMatcher.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FluentIterable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Booleans.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Chars.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/PercentEscaper.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Joiner.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Floats.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFutureTask.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Bytes.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/MultiReader.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Stopwatch.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Converter.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Longs.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/internal/Finalizer.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/InetAddresses.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/TrieParser.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingSetMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/MinMaxPriorityQueue.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractSequentialIterator.java  
\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingListMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RowSortedTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingImmutableCollection.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/UnmodifiableListIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedMapDifference.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/SortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedMultisets.java  
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jar/com/google/common/collect/DenseImmutableTable.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/ForwardingFuture.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/UnsignedBytes.java  
*  
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/net/HostSpecifier.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/SignedBytes.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/annotations/GwtIncompatible.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SparseImmutableTable.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/net/UrlEscapers.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/cache/ReferenceEntry.java  
*  
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/MapMakerInternalMap.java  
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

```

jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteArrayDataInput.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/html/HtmlEscapers.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
*

```

```
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/escape/Escapers.java
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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable}
 * to use {@link
 * ImmutableSortedMap#of\(Comparable, Object\).</b>
 */
```

```
Found in path(s):
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* version.
*/
```

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
*
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ArrayTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/TableCollectors.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableEnumSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableSortedSet.java

\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableSortedMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SingletonImmutableList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableSetMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ComparisonChain.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractIndexedListIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/EmptyImmutableSetMultimap.java

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jar/com/google/common/collect/ContiguousSet.java

```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/package-
info.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Equivalence.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/GwtTransient.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicLongMap.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CommonMatcher.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/CommonPattern.java

\*

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/JdkPattern.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/MutableValueGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/MoreCollectors.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ImmutableValueGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ElementOrder.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/NetworkConnections.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Comparators.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphConstants.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EdgesConnecting.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/GraphBuilder.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/AbstractValueGraph.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/EndpointPair.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/DirectedNetworkConnections.java

```

* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/UndirectedGraphConnections.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMapMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/DirectedGraphConnections.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/MapIteratorCache.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-

```

jar/com/google/common/graph/StandardMutableGraph.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/CollectSpliterators.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/graph/package-info.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedAsList.java

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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/Resources.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Function.java
*
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Files.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/package-info.java
*
 /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
```

```

jar/com/google/common/base/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Objects.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/Closeables.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/package-
info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/eventbus/AllowConcurrentEvents.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/io/LittleEndianDataInputStream.java

```

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Defaults.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CountingInputStream.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ByteStreams.java

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Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/LittleEndianByteArray.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/FarmHashFingerprint64.java  
\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MacHashFunction.java

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/graph/IncidentEdgeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/CompactHashing.java
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ImmutableSet.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMapEntry.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/AbstractIterator.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Sets.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingMultiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multimaps.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BiMap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multisets.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingQueue.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingConcurrentMap.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ReverseNaturalOrdering.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SortedSetMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EnumHashBiMap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Multiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/ForwardingListIterator.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/Ordering.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/TreeMultimap.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-

jar/com/google/common/collect/LinkedListMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractSortedSetMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ConcurrentHashMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/HashMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractSetMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableList.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/NullsLastOrdering.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractBiMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Iterators.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Interner.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Synchronized.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ComparatorOrdering.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/CompoundOrdering.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingSet.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingIterator.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingSortedMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractMapBasedMultiset.java  
\*

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/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ArrayListMultimap.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LexicographicalOrdering.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ClassToInstanceMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingSortedSet.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/MapDifference.java
*
```

```
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/EnumBiMap.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/ImmutableDoubleArray.java
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```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/ImmutableIntArray.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingLock.java
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/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractHashFunction.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/ImmutableLongArray.java
```

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingCondition.java
```

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```
/*
```

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/primitives/Platform.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/util/concurrent/Internal.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Streams.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Java8Compatibility.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/IgnoreJRERequirement.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableMultiset.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableSet.java

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/ImmutableSupplier.java

\*

/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java

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\*

\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's

\* `java.util.HashMap`

class.

\*/

Found in path(s):

\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Striped.java

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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/GeneralRange.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/RangeSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/Count.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ImmutableSortedMultiset.java  
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\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractScheduledService.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractCompositeHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Hashing.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractLoadingCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/ForwardingLoadingCache.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheBuilderSpec.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Optional.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Ticker.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Present.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Murmur3\_32HashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/PrimitiveSink.java  
\*  
/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/BoundType.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractHasher.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/base/Absent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Hasher.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/net/HostAndPort.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Murmur3_128HashFunction.java
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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Enums.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalListener.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalCause.java  
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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/package-info.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FunctionalEquivalence.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncFunction.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Cache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/BloomFilterStrategies.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigIntegerMath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java  
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/opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/IntMath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingOutputStream.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/EmptyContiguousSet.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Funnels.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheLoader.java  
\* /opt/cola/permits/1119092615\_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/ForwardingCache.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/BloomFilter.java
*
/opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
jar/com/google/common/hash/HashFunction.java
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* limitations under the License.
*/
/**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned
array.
*
*/
```



```
* <p>This method assumes that the collection size doesn't change while the method is running.  
*  
* <p>TODO(kevinb): support concurrently modified collections?  
*  
* @param c the collection for which to return an array of elements  
*/
```

Found in path(s):

```
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-  
jar/com/google/common/collect/ObjectArrays.java
```

# 1.49 httpcomponents-core 4.4.13

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## 1.51 commons-lang3 2.6

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jar/org/apache/commons/logging/package.html  
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
*
/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
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## 1.60 javassist 3.27.0-GA

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Found in path(s):

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

jar/javassist/compiler/ast/Visitor.java

\*

/opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

jar/javassist/compiler/ast/Member.java

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

jar/javassist/tools/reflect/CannotInvokeException.java

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

jar/javassist/CtNewWrappedConstructor.java

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/LoaderClassPath.java

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

```

jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/Mnemonic.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtArray.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/DefineClassHelper.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/SubroutineScanner.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtMember.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ExceptionTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/URLClassPath.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/NestMembersAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-

```

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jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/AttributeInfo.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/Subroutine.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Inner.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/DefinePackageHelper.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolFactory.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Modifier.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/BasicBlock.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/Callback.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/MethodInfo.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtMethod.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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jar/javassist/compiler/ast/CondExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/NewExpr.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassMap.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/FieldDecl.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CodeConverter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/NestHostAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/NotFoundException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Variable.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/Stmnt.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/framedump.java

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\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Bytecode.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ConstantAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Desc.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/ProxyFactory.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/FactoryHelper.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewMethod.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/RemoteException.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/InstanceOfExpr.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Declarator.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtClassType.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/NoSuchClassError.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtBehavior.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Expr.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ByteArray.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/RemoteRef.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/stackmap/TypedBlock.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Keyword.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/MemberCodeGen.java  
 \*  
 /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/Descriptor.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/Reflection.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ClassFileWriter.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Frame.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-

```

jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformAfter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/Util.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/web/BadHttpRequest.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPool.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/ExprEditor.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-

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jar/javassist/bytecode/AnnotationDefaultAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-  
 jar/javassist/scopedpool/SoftValueHashMap.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-  
 jar/javassist/tools/reflect/Loader.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtField.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/Dump.java  
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 jar/javassist/compiler/ast/MethodDecl.java  
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 jar/javassist/compiler/CompileError.java  
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 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-  
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 jar/javassist/convert/TransformCall.java  
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 jar/javassist/compiler/ast/Symbol.java  
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 jar/javassist/ByteArrayClassPath.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-  
 jar/javassist/compiler/AccessorMaker.java  
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 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Loader.java  
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 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassPath.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/HotSwapper.java  
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 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-  
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 jar/javassist/bytecode/DeprecatedAttribute.java  
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 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Translator.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Sample.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-  
 jar/javassist/bytecode/CodeAttribute.java  
 \* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/NewArray.java

\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ClassClassPath.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/IntConst.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/MethodHandler.java  
\*  
/opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformNew.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepository.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Cast.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/TokenId.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/RuntimeSupport.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Pair.java  
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/opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformWriteField.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtNewConstructor.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ConstPool.java  
\* /opt/cola/permits/1135872664\_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiType.java  
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/MemberValue.java
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jar/javassist/bytecode/annotation/EnumMemberValue.java
*
/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/DoubleMemberValue.java

```

## 1.61 classmate 1.5.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

## 1.62 zt 1.14

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* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/AsiExtraField.java
*
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jar/org/zeroturnaround/zip/extra/ZipLong.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ZipExtraField.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ZipShort.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ExtraFieldUtils.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/ZipConstants.java
* /opt/cola/permits/1135879776_1613624027.25/0/zt-zip-1-14-sources-1-
jar/org/zeroturnaround/zip/extra/UnrecognizedExtraField.java
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\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/commons/FileExistsException.java

\*

/opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/commons/IOUtils.java

\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/commons/FileUtilsV2\_2.java

\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/commons/StringBuilderWriter.java

\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/commons/FilenameUtils.java

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jar/org/zeroturnaround/zip/ZipInfoCallback.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/NameMapper.java  
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\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/timestamps/PreJava8TimestampStrategy.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/Zips.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/timestamps/TimestampStrategy.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/ByteSource.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/timestamps/Java8TimestampStrategy.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/ZipEntrySource.java  
\*  
/opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/IdentityNameMapper.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-jar/org/zeroturnaround/zip/ZipUtil.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/timestamps/TimestampStrategyFactory.java  
\* /opt/cola/permits/1135879776\_1613624027.25/0/zt-zip-1-14-sources-1-  
jar/org/zeroturnaround/zip/ZipEntryCallback.java

## 1.63 httpcomponents-mime 4.5.12

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## 1.64 jakarta-validation-api 2.0.2

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```
/*
 * Jakarta Bean Validation API
 *
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 */
```

Found in path(s):

```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
```

jar/javax/validation/constraintvalidation/ValidationTarget.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/metadata/MethodDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/UnexpectedTypeException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/metadata/BeanDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/constraints/Digits.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/valueextraction/UnwrapByDefault.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/constraints/NegativeOrZero.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/ConstraintViolation.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/ConstraintDefinitionException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/metadata/ValidateUnwrappedValue.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/constraintvalidation/SupportedValidationTarget.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/groups/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/spi/ValidationProvider.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/ElementKind.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/metadata/GroupConversionDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/valueextraction/ExtractedValue.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/bootstrap/GenericBootstrap.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/metadata/MethodType.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/metadata/ConstructorDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/constraintvalidation/package-info.java

```

*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/AssertTrue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Path.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/PositiveOrZero.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/BootstrapConfiguration.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ElementDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ContainerElementTypeDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/GroupDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/ConvertGroup.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/Scope.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Max.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ReportAsSingleViolation.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ParameterNameProvider.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/NoProviderFoundException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotBlank.java
*

```



/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Configuration.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ValidateOnExecution.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Size.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PastOrPresent.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolationException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/TraversableResolver.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableValidator.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationProviderResolver.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstraintDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ParameterDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotNull.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupSequence.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Negative.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorFactory.java

```

*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/OverridesAttribute.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Email.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidator.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Payload.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Past.java

```

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~

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<![CDATA[

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## 1.65 asm 7.1

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```
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Frame.java
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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldVisitor.java
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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java
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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Label.java
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* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1135892428_1613626883.3/0/asm-7-1-sources-6-
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jar/org/objectweb/asm/MethodTooLargeException.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-  
jar/org/objectweb/asm/signature/SignatureWriter.java  
\*  
/opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ConstantDynamic.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/AnnotationWriter.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-  
jar/org/objectweb/asm/signature/SignatureReader.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/FieldWriter.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ModuleWriter.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/CurrentFrame.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-  
jar/org/objectweb/asm/ClassTooLargeException.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/TypeReference.java  
\* /opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/ByteVector.java  
\*  
/opt/cola/permits/1135892428\_1613626883.3/0/asm-7-1-sources-6-jar/org/objectweb/asm/Opcodes.java  
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# 1.66 jakarta-ws-rs-api 2.1.6

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## 1.75 hk2-api 2.6.1

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# 1.76 resourcelocator 1.0.3

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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# 1.84 activation-api 1.2.0

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# 1.86 jakarta xml bind api 2.3.3

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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java>  
\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/BaseLinkedAtomicQueue.java  
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\*  
\* Originally from <https://code.google.com/p/guava-libraries/source/browse/guava/src/com/google/common/annotations/Beta.java>  
\*/

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/Beta.java  
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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/MpmcArrayQueue.java>  
\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/MpmcArrayQueue.java  
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\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/SpmcArrayQueue.java

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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java>  
\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/MpscLinkedAtomicQueue.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFlatMapSingle.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFlatMapCompletable.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulerLifecycle.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeReduce.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/SuppressAnimalSniffer.java

\*

/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTakeLastOne.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/DeferredScalarSubscriber.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ExceptionsUtils.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeConcatMap.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeCollect.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnSubscribeUsing.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFromCallable.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/DeferredScalarSubscriberSafe.java

\*

```
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribePublishMulticast.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleOperatorZip.java
```

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*/
```

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```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/Pow2.java
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```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeConcat.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleOperatorCast.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/observables/ConnectableObservable.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func7.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaPlugins.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/subscriptions/BooleanSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/MissingBackpressureException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSkipWhile.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorAsObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorToObservableSortedList.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorElementAt.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/BufferUntilSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorObserveOn.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/SubscriptionList.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/ScalarSynchronousObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDoOnSubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeConcatIterable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorWithLatestFromMany.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/IndexedRingBuffer.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/BackpressureDrainManager.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorTakeUntil.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSubscribeOn.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorReplay.java
```

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/UnsubscribeFailedException.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTakeLast.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFromArray.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Subscription.java  
 \*  
 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorIterable.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/Schedulers.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func4.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeSingle.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSkip.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Producer.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTimeoutTimedWithFallback.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeAmb.java  
 \*  
 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorIgnoreElements.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDoOnRequest.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeToMap.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Completable.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/PublishSubject.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func6.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/NewThreadScheduler.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/Subject.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorOnBackpressureBuffer.java  
 \*  
 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action9.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/TimeInterval.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTimeoutSelectorWithFallback.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Notification.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Observer.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorAll.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/NotificationLite.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action5.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func0.java

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func9.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorTimestamp.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Scheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SerializedSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Functions.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/SyncOnSubscribe.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func8.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action4.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeDefer.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/RxRingBuffer.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDematerialize.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeGroupJoin.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeRange.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action3.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeFromIterable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/BlockingOperatorLatest.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/Subscribers.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMaterialize.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleDoOnEvent.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/subscriptions/MultipleAssignmentSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleOnSubscribeMap.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorOnBackpressureDrop.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/OnCompletedFailedException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/TrampolineScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorThrottleFirst.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/ImmediateScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/TestSubscriber.java
*

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/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OperatorUnsubscribeOn.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OperatorSequenceEqual.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OperatorToObservableList.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OperatorSkipLast.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/subjects/SubjectSubscriptionManager.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action8.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action1.java  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
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 jar/rx/internal/subscriptions/SequentialSubscription.java  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaErrorHandler.java  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/CompletableOnSubscribeMerge.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action7.java  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/package-info.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Subscriber.java  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/BlockingOperatorToFuture.java  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action2.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorTimeInterval.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func5.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeFilter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/BlockingOperatorToIterator.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeSubscriber.java
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/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/GenericScheduledExecutorService.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorTakeLastTimed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CachedObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/LinkedList.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorTakeUntilPredicate.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func1.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/Subscriptions.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/Exceptions.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/subscriptions/SerialSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/subscriptions/CompositeSubscription.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorSkipLastTimed.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMerge.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/CompositeException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/OnErrorThrowable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/schedulers/NewThreadScheduler.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/UnicastSubject.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/exceptions/OnErrorFailedException.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/SleepingAction.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action0.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/TestSubject.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/AsyncSubject.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BlockingOperatorNext.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/ActionN.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeToObservableFuture.java  
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/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/SerializedSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/FuncN.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorScan.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/TrampolineScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTake.java  
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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java>  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpSCUnboundedAtomicArrayQueue.java  
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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/LinkedListNode.java>  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/BlockingSingle.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/AsyncOnSubscribe.java

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/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/BlockingUtils.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleSubscriber.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/CompletableSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleEmitter.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableFromEmitter.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeCombineLatest.java  
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert  
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:  
<https://github.com/JCTools/JCTools>

JCTools has now published artifacts (<https://github.com/JCTools/JCTools/issues/17>) so RxJava could add JCTools as a "shadow" dependency (<https://github.com/ReactiveX/RxJava/issues/1735>). RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is <https://github.com/JCTools/JCTools/blob/master/LICENSE>

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jar/rx/internal/producers/QueuedValueProducer.java
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/producers/ProducerObserverArbiter.java
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jar/rx/internal/producers/QueuedProducer.java
```

\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BackpressureUtils.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/SingleProducer.java  
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jar/rx/internal/operators/OperatorBufferWithTime.java
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jar/rx/internal/operators/OperatorMulticast.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorMapPair.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorEagerConcatMap.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorDistinct.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/ScheduledAction.java
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jar/rx/internal/operators/OperatorSampleWithObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/schedulers/ExecutorScheduler.java
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jar/rx/internal/operators/OperatorBufferWithSize.java
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jar/rx/internal/operators/OperatorDebounceWithSelector.java
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jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/RxThreadFactory.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeDelaySubscription.java
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jar/rx/internal/operators/OperatorWindowWithObservable.java
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jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeSkipTimed.java
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jar/rx/internal/operators/OperatorSkipUntil.java
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jar/rx/internal/operators/OnSubscribeTimerOnce.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OperatorWindowWithObservableFactory.java
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jar/rx/internal/operators/OperatorDistinctUntilChanged.java
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Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/MessagePassingQueue.java

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\* Original location: <https://github.com/JCTools/JCTools/blob/master/jctools-core/src/main/java/org/jctools/queues/SpSCLinkedQueue.java>  
\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/SpSCLinkedQueue.java

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\*/

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/QueueProgressIndicators.java  
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\* This plugin class provides 2 ways to customize {@link Scheduler} functionality

\* 1. You may redefine entire schedulers, if you so choose. To do so, override

\* the 3 methods that return Scheduler (io(), computation(), newThread()).

\* 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-

\* supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,

\* Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to

\* modify Scheduler functionality without redefining Schedulers wholesale.

\*

\* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.

\* <p>

\* See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:

\* <a

href="https://github.com/ReactiveX/RxJava/wiki/Plugins">https://github.com/ReactiveX/RxJava/wiki/Plugins</a>.

\*/

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```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/UtilityFunctions.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Observable.java
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 * core/src/main/java/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java
 */
```

Found in path(s):

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/atomic/SpSCExactAtomicArrayQueue.java
```

```
*
 /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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core/src/main/java/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
*/
```

Found in path(s):

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeDetach.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Emitter.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilObservable.java
- \*
- /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/package-info.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeCompletableSubscriber.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionObserver.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeThrow.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/package-info.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilCompletable.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/package-info.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/InternalObservableUtils.java
- \*
- /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/BackpressureOverflow.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaCompletableExecutionHook.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnUnsubscribe.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/Unsubscribed.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeLift.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleLiftObservableOperator.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHook.java
- \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnErrorReturn.java
- \*

/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssembly.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromEmitter.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeCreate.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionNotificationObserver.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/CancellableSubscription.java  
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/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleObserveOn.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AssertableSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/observers/AssertableSubscriberObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromCallable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ObserverSubscriber.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/AssemblyStackTraceException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromFuture.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilSingle.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Cancellable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/EmptyObservableHolder.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleToObservable.java  
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/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/NeverObservableHolder.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AsyncCompletableSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulePeriodicHelper.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaHooks.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDelay.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTimeout.java

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# 1.92 junit 4.13.1

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## 1.107 apache-log4j 2.17.1

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zlib.h -- interface of the 'zlib' general purpose compression library  
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ASM: a very small and fast Java bytecode manipulation framework

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From strings/apr\_fnmatch.c, include/apr\_fnmatch.h, misc/unix/getopt.c, file\_io/unix/mktemp.c, strings/apr\_strings.c:

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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 tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
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```

package tasks

```

import groovy.util.Node
import groovy.util.XmlParser
import org.gradle.api.DefaultTask
import org.gradle.api.file.RegularFileProperty
import org.gradle.api.provider.Property
import org.gradle.api.tasks.Input
import org.gradle.api.tasks.InputFile
import org.gradle.api.tasks.OutputFile
import org.gradle.api.tasks.TaskAction
import java.util.*

abstract class WriteCopyrightToFile : DefaultTask() {
    @InputFile
    val path = project.file("${project.rootDir}/.idea/copyright/apache.xml")

    @get:OutputFile
    abstract val outputFile: RegularFileProperty

    @get:Input
    val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)

    @TaskAction
    fun write() {
        val file = outputFile.asFile.get()
        file.writeText(if

```

```

(commented.get()) readCopyrightCommented() else readCopyright()
}

private fun readCopyright(): String {
    assert(path.exists()) {
        "File $path with copyright not found"
    }

    val xmlParser = XmlParser()
    val node = xmlParser.parse(path)
    assert(node.attribute("name") == "CopyrightManager") {
        "Format changed occasionally?"
    }

    val copyrightBlock = node.children().filterIsInstance<Node>().single()
    val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
    return noticeNode.attribute("value").toString().replace("&#36;today.year",
GregorianCalendar()[Calendar.YEAR].toString())
}

private fun readCopyrightCommented(): String {
    return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
}
}

```

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Version 3.1, 31 March 2009

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## 1.110 dom 1.0

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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/w3c/dom/html/HTMLDOMImplementation.java

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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ElementEditAS.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java



\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObject.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMImplementationAS.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASModel.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DocumentAS.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASElementDeclaration.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASDataType.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASContentModel.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASWriter.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DocumentEditAS.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObjectList.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASBuilder.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASException.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/NodeEditAS.java

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/\*\*

\* Checks if this content model has had its min/maxOccurs values reduced for  
\* purposes of speeding up UPA. If  
so, this content model should not be used  
\* for any purpose other than checking unique particle attribution  
\*  
\* @return a boolean that says whether this content has been compacted for UPA  
\*/

Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java

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/\*\*

\* DOM Level 3 LS CR - Experimental.  
\* Create a new `LSParser`. The newly constructed parser may  
\*  
then be configured by means of its `DOMConfiguration`  
\* object, and used to parse documents by means of its `parse`  
\* method.  
\* @param mode The `mode` argument is either  
\* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if  
\* `mode` is `MODE_SYNCHRONOUS` then the  
\* `LSParser` that is created will operate in synchronous  
\* mode, if it's `MODE_ASYNCHRONOUS` then the

- \* `LSParser` that is created will operate in asynchronous
- \* mode.
- \* `@param schemaType` An absolute URI representing the type of the schema
- \* language used during the load of a `Document` using the
- \* newly created `LSParser`. Note that no lexical checking
- \* is done on the absolute URI. In order to create a
- \* `LSParser` for any kind of schema types (i.e. the
- \* `LSParser` will be free to use any schema

found), use the value

- \* `null`.
- \* `<p><b>Note:</b>` For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)]
- \* , applications must use the value
- \* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
- \* applications must use the value
- \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- \* are outside the scope of the W3C and therefore should recommend an
- \* absolute URI in order to use this method.
- \* `@return` The newly created `LSParser` object. This
- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* `<p><b>Note:</b>` By default, the newly created `LSParser`
- \* does not contain a `DOMErrorHandler`, i.e. the value of
- \* the "[http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)
- \* `handler`" configuration parameter is `null`. However, implementations
- \* may provide a default error handler at creation time. In that case,
- \* the initial value of the `"error-handler"` configuration
- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.
- \* `@exception DOMException`
- \* `NOT_SUPPORTED_ERR`: Raised if the requested mode or schema type is
- \* not supported.

Found in path(s):

`/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java`

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xni/parser/XMLErrorHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/html/dom/HTMLFrameElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/ShadowedSymbolTable.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLImgElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/WMLOptgroupElement.java  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xni/parser/XMLInputSource.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/WMLImgElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLTimerElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xs/XSParticle.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLWmlElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java  
\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLMetaElement.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/impl/dv/XSSimpleType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDelegate.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/events/UIEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/Method.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/stax/events/EntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/datatypes/ByteList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredAttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/DOMUtil.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLIElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xpointer/ElementSchemePointer.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/jaxp/validation/XMLSchema.java
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jar/org/apache/html/dom/HTMLHRElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xs/XSNamespaceItemList.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/DOMEntityResolverWrapper.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xpath/regex/RegexParser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/ElementNSImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/stax/events/AttributeImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/impl/xs/models/XSCMLLeaf.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/util/NamespaceSupport.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/xni/XMLDocumentHandler.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/dom/DOMLocatorImpl.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/impl/xs/util/LSInputListImpl.java  
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 /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/impl/dtd/models/CMBinOp.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/impl/dv/xs/ExtendedSchemaDVFactoryImpl.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/impl/dv/xs/EntityDV.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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 jar/org/apache/xerces/impl/XMLEntityManager.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/impl/xs/XSAttributeDecl.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/html/dom/HTMLOptGroupElementImpl.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/xerces/impl/dv/DVFactoryException.java  
 \* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
 jar/org/apache/html/dom/HTMLDocumentImpl.java  
 \*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptionElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java



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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLDoElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/NameNodeListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/io/UCSReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/RevalidationHandler.java
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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/\*\*

\* used to check the 3 constraints against each complex type

\* (should be each model group):

\* Unique Particle

Attribution, Particle Derivation (Restriction),

\* Element Declarations Consistent.

\*/

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/YearDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DateDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/MonthDV.java

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jar/org/apache/xerces/impl/dv/xs/DurationDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/TimeDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java

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jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/xs/DayDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

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jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DOMMessages.properties
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jar/org/apache/xerces/impl/msg/XPointerMessages.properties
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jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
*
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jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
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jar/org/HdrHistogram/SynchronizedHistogram.java  
\* /opt/cola/permits/1257262326\_1642793354.36/0/hdrhistogram-2-1-8-sources-  
jar/org/HdrHistogram/SynchronizedDoubleHistogram.java  
\* /opt/cola/permits/1257262326\_1642793354.36/0/hdrhistogram-2-1-8-sources-  
jar/org/HdrHistogram/HistogramLogReader.java  
\* /opt/cola/permits/1257262326\_1642793354.36/0/hdrhistogram-2-1-8-sources-  
jar/org/HdrHistogram/DoubleLinearIterator.java  
\* /opt/cola/permits/1257262326\_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/Version.java  
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jar/org/HdrHistogram/IntCountsHistogram.java  
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jar/org/HdrHistogram/AbstractHistogramIterator.java  
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jar/org/HdrHistogram/SingleWriterRecorder.java  
\* /opt/cola/permits/1257262326\_1642793354.36/0/hdrhistogram-2-1-8-sources-  
jar/org/HdrHistogram/Histogram.java  
\* /opt/cola/permits/1257262326\_1642793354.36/0/hdrhistogram-2-1-8-sources-  
jar/org/HdrHistogram/DoubleHistogramIterationValue.java  
\* /opt/cola/permits/1257262326\_1642793354.36/0/hdrhistogram-2-1-8-sources-  
jar/org/HdrHistogram/HistogramLogProcessor.java  
\* /opt/cola/permits/1257262326\_1642793354.36/0/hdrhistogram-2-1-8-sources-  
jar/org/HdrHistogram/HistogramIterationValue.java

```
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/ShortCountsHistogram.java
*
/opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/LinearIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/DoubleHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/DoubleRecorder.java
*
/opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/AbstractHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/ConcurrentHistogram.java
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/AbstractHistogramLogReader.java
*
/opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-
jar/org/HdrHistogram/EncodableHistogram.java
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```

```
/**
```

```
* Written by Gil Tene of Azul Systems, and released to the public domain,
* as explained at http://creativecommons.org/publicdomain/zero/1.0/
*
* @author Gil Tene
*/
```

```
package org.HdrHistogram;
```

```
final class Version {  
    public static final String version="$VERSION$";  
    public static final String build_time="$BUILD_TIME$";  
}
```

Found in path(s):

```
* /opt/cola/permits/1257262326_1642793354.36/0/hdrhistogram-2-1-8-sources-  
jar/org/HdrHistogram/Version.java.template
```

## 1.112 opentracing-noop 0.31.0

### 1.112.1 Available under license :

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```
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```

```
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```

```
*
```

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*
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```
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```

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```
* the License.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-  
jar/io/opentracing/noop/NoopSpanBuilder.java
```

```
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-  
jar/io/opentracing/noop/NoopSpan.java
```

```
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-  
jar/io/opentracing/noop/NoopScopeManager.java
```

```
*
```

```
/opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-  
jar/io/opentracing/noop/NoopSpanContext.java
```

```
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-  
jar/io/opentracing/noop/NoopTracer.java
```

```
* /opt/cola/permits/1257262334_1642793362.32/0/opentracing-noop-0-31-0-sources-  
jar/io/opentracing/noop/NoopTracerFactory.java
```



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Found in path(s):

\* /opt/cola/permits/1257262334\_1642793362.32/0/opentracing-noop-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-noop/pom.xml

## 1.113 snappy 0.4

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\* /opt/cola/permits/1257262310\_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/SnappyFramedOutputStream.java

\* /opt/cola/permits/1257262310\_1642793358.23/0/snappy-0-4-sources-

```

jar/org/iq80/snappy/SnappyOutputStream.java
*
/opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-
jar/org/iq80/snappy/SnappyDecompressor.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-
jar/org/iq80/snappy/AbstractSnappyOutputStream.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/Memory.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-
jar/org/iq80/snappy/HadoopSnappyCodec.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/Crc32C.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/Snappy.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/SnappyCompressor.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-
jar/org/iq80/snappy/SnappyFramedInputStream.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/SnappyFramed.java
*
/opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/BufferRecycler.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-
jar/org/iq80/snappy/SnappyInternalUtils.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/SnappyInputStream.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/SlowMemory.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-
jar/org/iq80/snappy/CorruptionException.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/UnsafeMemory.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-jar/org/iq80/snappy/Main.java
* /opt/cola/permits/1257262310_1642793358.23/0/snappy-0-4-sources-
jar/org/iq80/snappy/AbstractSnappyInputStream.java

```

## 1.114 argparse 0.8.1

### 1.114.1 Available under license :

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```

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\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/ReflectArgumentType.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/CountArgumentAction.java  
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jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumNameArgumentType.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/EnumStringArgumentType.java

\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumStringArgumentType.java  
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\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/internal/TerminalWidth.java  
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\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/helper/HelpScreenException.java

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\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/MetavarInference.java

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\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/PrefixPattern.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/SubparserImpl.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/VersionArgumentAction.java  
\*  
/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/UnrecognizedArgumentException.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Subparsers.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/annotation/Arg.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/UnrecognizedCommandException.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentType.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/TextWidthCounter.java  
\*

/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/action/StoreArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/Namespace.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/FeatureControl.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java  
\*  
/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/FileVerification.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/EnumArgumentType.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/Subparser.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/helper/ReflectHelper.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/internal/ParseState.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/helper/TextHelper.java  
\*  
/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/ArgumentParsers.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/Argument.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/internal/ArgumentParserImpl.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/choice/RangeArgumentChoice.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/Arguments.java  
\*

/opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/action/AppendArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/ArgumentParser.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/action/HelpArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java  
\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java  
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\* /opt/cola/permits/1257333064\_1642801966.95/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/FileArgumentType.java  
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* /opt/cola/permits/1257333064_1642801966.95/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/inf/MutuallyExclusiveGroup.java

```

## 1.115 jetty-setuid-java 1.0.4

### 1.115.1 Available under license :

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```

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```

* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/SetUID.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Group.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/RLimit.java
*
/opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-
jar/org/eclipse/jetty/setuid/Passwd.java

```

# 1.116 profiler 1.1.1

## 1.116.1 Available under license :

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```
/*!
 * jQuery JavaScript Library v1.6.2
 * http://jquery.com/
 *
 * Copyright 2011, John Resig
 * Dual licensed under the MIT or GPL Version 2 licenses.
 * http://jquery.org/license
 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
 * Copyright 2011, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 *
 * Date: Thu Jun 30 14:16:56 2011 -0400
 */
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/jquery-1.6.2.min.js
```

No license file was found, but licenses were detected in source scan.

```
/*!
 * jQuery Templates Plugin 1.0.0pre
 * http://github.com/jquery/jquery-tmpl
 * Requires jQuery 1.4.2
 *
 * Copyright Software Freedom Conservancy, Inc.
 * Dual licensed under the MIT or GPL Version 2 licenses.
 * http://jquery.org/license
 */
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/jquery.templ.min.js
```

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```
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\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/MiniProfiler.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/MiniProfilerFilter.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/MiniProfilerServlet.java

## 1.117 antlr-runtime 4.9.2

### 1.117.1 Available under license :

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\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/ANTLRFileStream.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/PlusBlockStartState.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/IntegerList.java

\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/PlusLoopbackState.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/EmptyPredictionContext.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/InputMismatchException.java  
\*  
/opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/BaseErrorListener.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/dfa/DFASState.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/PrecedencePredicateTransition.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/Pair.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/ANTLRInputStream.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/Triple.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/RuntimeMetaData.java  
\*  
/opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/IntegerStack.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/SemanticContext.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/DefaultErrorStrategy.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/IntSet.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/WildcardTransition.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/NoViableAltException.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/LexerIndexedCustomAction.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/CommonTokenFactory.java  
\*  
/opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/InterpreterRuleContext.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/BlockStartState.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-

jar/org/antlr/v4/runtime/TokenFactory.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/Vocabulary.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/ATN.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/InterpreterDataReader.java  
\*  
/opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/LL1Analyzer.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/RuleTransition.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/FlexibleHashMap.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerSkipAction.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/ParseInfo.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/UnbufferedCharStream.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/ATNState.java  
\*  
/opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/pattern/Chunk.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/Recognizer.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/Trees.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerActionType.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/CommonToken.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/Token.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/CodePointCharStream.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/Transition.java  
\*  
/opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/AbstractPredicateTransition.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerCustomAction.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-

```

jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/tree/ErrorNodeImpl.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/TokensStartState.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/TokenStream.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java
*
/opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/DecisionState.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathWildcardElement.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/AtomTransition.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/ProxyErrorListener.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/BlockEndState.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/DecisionInfo.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/tree/ParseTreeListener.java
*
/opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/ATNType.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/misc/TestRig.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LexerATNConfig.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java
* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/misc/Predicate.java
*
/opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LexerChannelAction.java

```

\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/ParseTreeWalker.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializer.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/ParserRuleContext.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/CodePointTransitions.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/ATNSerializer.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/ParserATNSimulator.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/TerminalNode.java  
 \*  
 /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/SingletonPredictionContext.java  
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 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/BufferedTokenStream.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathLexerErrorListener.java  
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 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/CharStreams.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathRuleElement.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/CharStream.java  
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 /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/Array2DHashSet.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/LogManager.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/StarBlockStartState.java  
 \* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/ParseTree.java  
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/opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/ParserInterpreter.java  
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\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/ConsoleErrorListener.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/RuleNode.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/EqualityComparator.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathWildcardAnywhereElement.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/AbstractEqualityComparator.java  
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/opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java  
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\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java  
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\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/TokenSource.java  
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\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/Utils.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/DiagnosticErrorListener.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/RuleContextWithAltNum.java  
\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathRuleAnywhereElement.java  
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\* /opt/cola/permits/1257347427\_1642803556.61/0/antlr4-runtime-4-9-2-sources-  
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jar/org/antlr/v4/runtime/misc/DoubleKeyMap.java  
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jar/org/antlr/v4/runtime/misc/MultiMap.java
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* /opt/cola/permits/1257347427_1642803556.61/0/antlr4-runtime-4-9-2-sources-jar/META-
INF/maven/org/antlr/antlr4-runtime/pom.xml
```

## 1.118 jackson-module-afterburner 2.10.5

### 1.118.1 Available under license :

```
# Jackson JSON processor
```

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

```
## Licensing
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Jackson core and extension components (as well their dependencies) may be licensed under

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To find the details that apply to this artifact see the accompanying LICENSE file.

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## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

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Additional licensing information exists for following 3rd party library dependencies

## ### ASM

ASM: a very small and fast Java bytecode manipulation framework

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## 1.119 dagger 2.4

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- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/MapKey.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MapFactory.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/Component.java
- \*
- /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/InstanceFactory.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/SingleCheck.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Factory.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MapProviderFactory.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Collections.java
- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/SetFactory.java

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\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/MembersInjectors.java  
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\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/package-info.java

\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntKey.java

\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/StringKey.java

\*

/\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/LongKey.java

\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Beta.java

\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/ClassKey.java

\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/Subcomponent.java

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\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/Reusable.java  
\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/ProviderOfLazy.java  
\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/Binds.java  
\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/Preconditions.java  
\*  
\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/internal/DoubleCheck.java  
\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-  
jar/dagger/multibindings/ElementsIntoSet.java  
\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoMap.java  
\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/package-info.java  
\* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/multibindings/IntoSet.java  
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- \* /opt/cola/permits/1257772315\_1643010337.24/0/dagger-2-4-sources-jar/dagger/MembersInjector.java

## 1.120 paranamer 2.5.1

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\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-jar/com/thoughtworks/paranamer/NullParanamer.java  
\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-jar/com/thoughtworks/paranamer/AdaptiveParanamer.java  
\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java  
\*

/opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-jar/com/thoughtworks/paranamer/CachingParanamer.java

\* /opt/cola/permits/1257772269\_1643010353.74/0/paranamer-2-5-1-sources-jar/com/thoughtworks/paranamer/DefaultParanamer.java

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## 1.121 jctools-core 3.3.0

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jar/org/jctools/queues/atomic/AtomicQueueFactory.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/Preference.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/package-info.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/Ordering.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/RangeUtil.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/PaddedAtomicLong.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/QueueFactory.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/LinkedQueueNode.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MessagePassingQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscLinkedQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-

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jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/AbstractEntry.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/NonBlockingSetInt.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
*
/opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/SpMCArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/BaseLinkedQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
*
/opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/maps/ConcurrentAutoTable.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java
*
/opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/SpSCLinkedQueue.java
* /opt/cola/permits/1257772382_1643010290.62/0/jctools-core-3-3-0-sources-
jar/org/jctools/queues/MpscGrowArrayQueue.java

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\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeAccess.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SupportsIterator.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpscArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCChunkedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCUnboundedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/InternalAPI.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/SpSCGrowableArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/PortableJvmInfo.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java  
\* /opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java  
\*  
/opt/cola/permits/1257772382\_1643010290.62/0/jctools-core-3-3-0-sources-jar/org/jctools/util/Pow2.java



# 1.122 grpc-protobuf-lite 1.37.0

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Found in path(s):

```
* /opt/cola/permits/1257772239_1643010288.95/0/grpc-protobuf-lite-1-37-0-sources-
jar/io/grpc/protobuf-lite/package-info.java
```

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```
* /opt/cola/permits/1257772239_1643010288.95/0/grpc-protobuf-lite-1-37-0-sources-
jar/io/grpc/protobuf-lite/ProtoLiteUtils.java
```

```
* /opt/cola/permits/1257772239_1643010288.95/0/grpc-protobuf-lite-1-37-0-sources-
jar/io/grpc/protobuf-lite/ProtoInputStream.java
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# 1.123 grpc-protobuf 1.37.0

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* /opt/cola/permits/1257772115_1643010331.15/0/grpc-protobuf-1-37-0-sources-
jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java
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* /opt/cola/permits/1257772115_1643010331.15/0/grpc-protobuf-1-37-0-sources-
jar/io/grpc/protobuf/ProtoUtils.java
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```
* /opt/cola/permits/1257772115_1643010331.15/0/grpc-protobuf-1-37-0-sources-
jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java
* /opt/cola/permits/1257772115_1643010331.15/0/grpc-protobuf-1-37-0-sources-
jar/io/grpc/protobuf/StatusProto.java
* /opt/cola/permits/1257772115_1643010331.15/0/grpc-protobuf-1-37-0-sources-jar/io/grpc/protobuf/package-
info.java
*
/opt/cola/permits/1257772115_1643010331.15/0/grpc-protobuf-1-37-0-sources-
jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java
```

## 1.124 netty-codec 4.1.70.Final

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

\*

/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/HeadersUtils.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/CodecOutputList.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java

\*

/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/DateFormatter.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Brotli.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-

jar/io/netty/handler/codec/compression/GzipOptions.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/ZstdConstants.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/ZstdEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
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jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java

\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\*  
/opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/json/package-info.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
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/**
* Utility class for { @link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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*/
```

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```
* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
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- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
- \*
- /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/package-info.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
- \*
- /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
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- /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/DecoderResult.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
- \* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/string/package-info.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
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jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
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jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
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jar/io/netty/handler/codec/ByteToMessageCodec.java  
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jar/io/netty/handler/codec/compression/ZlibUtil.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/compression/Snappy.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/ValueConverter.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/CharSequenceValueConverter.java  
\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-  
jar/io/netty/handler/codec/DefaultHeadersImpl.java  
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\*/  
/\*\*  
\* Enumeration of supported Base64 dialects.  
\* <p>  
\* The internal lookup tables in this class has been derived from  
\* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert

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\* Base64 Encoder/Decoder</a>.

\*/

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java

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\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

\* /opt/cola/permits/1257888635\_1643019970.33/0/netty-codec-4-1-70-final-sources-jar/io/netty/handler/codec/Headers.java

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```

*/
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * <pre>
 * <b>lengthFieldOffset</b> = <b>0</b>
 * <b>lengthFieldLength</b> = <b>2</b>
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 * BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
 * +-----+-----+ +-----+-----+
 * | Length | Actual Content |
 * |---->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
 * +-----+-----+ +-----+-----+
 * </pre>
 *
 * <h3>2 bytes length field at offset 0, strip header</h3>
 *
 * Because we can get the length of the content by calling
 * {@link ByteBuf#readableBytes()}, you might want to strip the length
 * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
 * specified <tt>2</tt>, that is same with the length of the length field, to
 * strip the first two bytes.
 *
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
 *
 * BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)

```



```

* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.

```

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*

```

```

* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

```

```

* +-----+-----+ +-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*

```

```

* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*

```

```

* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

```

```

* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*

```

```

* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)

```

```

* +-----+-----+-----+ +-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+-----+

```

```

* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
* LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field

```

```

* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1257888635_1643019970.33/0/netty-codec-4-1-70-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

## 1.125 netty-transport 4.1.70.Final

### 1.125.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelFactory.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/AbstractEventLoop.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/PendingWriteQueue.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/META-INF/native-image/io.netty.transport/native-image.properties

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Found in path(s):

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-

jar/io/netty/channel/ChannelFutureListener.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/DefaultChannelPipeline.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/DefaultEventLoop.java  
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/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/oio/AbstractOioChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/embedded/package-info.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/EventLoopGroup.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/DefaultChannelConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/group/package-info.java  
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jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java  
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/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/nio/NioEventLoopGroup.java  
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jar/io/netty/channel/socket/DatagramPacket.java  
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jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java  
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jar/io/netty/channel/AbstractChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelMetadata.java  
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/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/EventLoop.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java  
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelHandlerContext.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/local/LocalChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
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/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java  
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/AbstractServerChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-

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\*  
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jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/FileRegion.java  
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jar/io/netty/channel/SingleThreadEventLoop.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/package-info.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/DatagramChannel.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/bootstrap/AbstractBootstrap.java  
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/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/FixedRecvByteBufAllocator.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/local/LocalChannelRegistry.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelException.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelPromiseAggregator.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
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jar/io/netty/channel/nio/NioTask.java  
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/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelFuture.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/InternetProtocolFamily.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DefaultFileRegion.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/Bootstrap.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/oio/package-info.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/SocketChannel.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/group/CombinedIterator.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/nio/package-info.java

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/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/local/LocalServerChannel.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelPipeline.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/Channel.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelInitializer.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-



jar/io/netty/channel/nio/AbstractNioByteChannel.java  
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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/local/LocalAddress.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
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jar/io/netty/channel/EventLoopTaskQueueFactory.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelHandlerMask.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ExtendedClosedChannelException.java  
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jar/io/netty/channel/pool/package-info.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

\*

/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/pool/SimpleChannelPool.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/pool/ChannelHealthChecker.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

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jar/io/netty/channel/pool/ChannelPoolHandler.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/pool/ChannelPool.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java

\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java  
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jar/io/netty/channel/StacklessClosedChannelException.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/DuplexChannelConfig.java

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```

*/
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline }.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{ @link
 * ChannelInboundHandler } to handle inbound I/O events, and</li>
 * <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
 * <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
 * <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
 * object. A { @link ChannelHandler } is supposed to interact with the
 * { @link ChannelPipeline } it belongs to via a context object. Using the
 * context object, the { @link ChannelHandler } can pass events upstream or
 * downstream, modify the pipeline dynamically,
 * or store the information
 * (using { @link AttributeKey }s) which is specific to the handler.
 *
 * <h3>State management</h3>
 *
 * A { @link ChannelHandler } often needs to store some stateful information.
 * The simplest and recommended approach is to use member variables:
 * <pre>
 * public interface Message {
 *     // your methods here
 * }
 *
 * public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt;Message &gt; {
 *

```

```

* <b>private boolean loggedIn;</b>
*
* { @code @Override }
* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         <b>loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*         if (<b>loggedIn</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* }
* }
* ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&gt;{ @link Channel}&gt; {
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
* }
* </pre>
*
* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;&gt;Message&gt; {

```

```

* private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*     {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
* {@code @Override}
* public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*     {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) o);
*         <b>attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) {
*         if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
* }
* ...
* }

```

\* </pre>

\* Now that the

state of the handler is attached to the {@link ChannelHandlerContext}, you can add the

\* same handler instance to different pipelines:

\* <pre>

```

* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }

```

\* </pre>

\*

\*

\* <h4>The {@code @Sharable} annotation</h4>

\* <p>

\* In the example above which used an {@link AttributeKey},

\* you might have noticed the {@code @Sharable} annotation.

\* <p>

\* If a {@link ChannelHandler} is annotated with the {@code @Sharable}

\* annotation, it means you can create an instance of the handler just once and

\* add it to one or more {@link ChannelPipeline}s multiple times without

\* a race condition.

\* <p>

\* If this annotation is not specified, you have to create

a new handler

- \* instance every time you add it to a pipeline because it has unshared state
- \* such as member variables.
- \* `<p>`
- \* This annotation is provided for documentation purpose, just like
- \* `<a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>`.
- \*
- \* `<h3>Additional resources worth reading</h3>`
- \* `<p>`
- \* Please refer to the { @link ChannelHandler }, and
- \* { @link ChannelPipeline } to find out more about inbound and outbound operations,
- \* what fundamental differences they have, how they flow in a pipeline, and how to handle
- \* the operation in your application.
- \*/

Found in path(s):

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

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jar/io/netty/channel/WriteBufferWaterMark.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelInboundInvoker.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/ChannelOutboundInvoker.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/SelectStrategy.java  
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jar/io/netty/bootstrap/BootstrapConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/bootstrap/ServerBootstrapConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/PreferHeapByteBufAllocator.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/group/VoidChannelGroupFuture.java  
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jar/io/netty/channel/SelectStrategyFactory.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/DefaultSelectStrategyFactory.java  
\*  
/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/bootstrap/AbstractBootstrapConfig.java  
\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-  
jar/io/netty/channel/socket/DuplexChannel.java  
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jar/io/netty/channel/DefaultSelectStrategy.java

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/opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/internal/ChannelUtils.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

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\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/bootstrap/FailedChannel.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

\* /opt/cola/permits/1257888664\_1643019966.4/0/netty-transport-4-1-70-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

```
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jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/PendingBytesTracker.java
*
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jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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Found in path(s):

```
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/DefaultAddressedEnvelope.java
*
/opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
*
/opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelId.java
```

```

* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelProgressiveFuture.java
*
/opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
*
/opt/cola/permits/1257888664_1643019966.4/0/netty-transport-4-1-70-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java

```

# 1.126 netty-resolver 4.1.70.Final

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Found in path(s):

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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Found in path(s):

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/NameResolver.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/package-info.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

\*

/\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

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Found in path(s):

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-  
jar/io/netty/resolver/HostsFileEntries.java  
\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-  
jar/io/netty/resolver/ResolvedAddressTypes.java

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Found in path(s):

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-  
jar/io/netty/resolver/HostsFileEntriesProvider.java

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\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/DefaultNameResolver.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/AddressResolver.java

\*

/opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/HostsFileParser.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/InetAddressResolver.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java

\* /opt/cola/permits/1257888705\_1643019972.09/0/netty-resolver-4-1-70-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java



# 1.127 netty-handler 4.1.70.Final

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Found in path(s):

```
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/pcap/package-info.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/pcap/PcapWriter.java
```

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedInput.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/logging/LoggingHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/logging/package-info.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedFile.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/package-info.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/logging/LogLevel.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/TimeoutException.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/package-info.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/stream/ChunkedStream.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-

```
jar/io/netty/handler/timeout/IdleState.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
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Found in path(s):

```
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/BouncyCastle.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/AsyncRunnable.java
```

```
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/GroupsConverter.java
```

```
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/address/package-info.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java

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/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

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/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java

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jar/io/netty/handler/flow/FlowControlHandler.java

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jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/ClientAuth.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/SslContextBuilder.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNames.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

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jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java  
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jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

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/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKey.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/OpenSslSession.java

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jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

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jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

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/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java  
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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/SniHandler.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java  
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
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jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
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* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
*
/opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1257888733_1643019979.68/0/netty-handler-4-1-70-final-sources-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
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\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

\*

/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/flush/package-info.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

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/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/PemEncoded.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/PemValue.java

\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java

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jar/io/netty/handler/traffic/TrafficCounter.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/traffic/package-info.java  
\* /opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java  
\*  
/opt/cola/permits/1257888733\_1643019979.68/0/netty-handler-4-1-70-final-sources-  
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

## 1.128 jackson-annotations 2.10.1

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\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java  
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/opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/NoAllocation.java  
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\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java  
\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/DoNotCall.java  
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/opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java  
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jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
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/opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
jar/com/google/errorprone/annotations/RequiredModifiers.java
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jar/com/google/errorprone/annotations/Immutable.java
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jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1258176975_1643041610.68/0/error-prone-annotations-2-7-1-sources-
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\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/FormatString.java

\*  
/opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/MustBeClosed.java  
\* /opt/cola/permits/1258176975\_1643041610.68/0/error-prone-annotations-2-7-1-sources-jar/com/google/errorprone/annotations/RestrictedApi.java

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## 1.130 protobuf-java-format 1.2

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## 1.134 animal-sniffer-annotation 1.19

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\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/GrpcSslContexts.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/ProtocolNegotiator.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/NettyWritableBufferAllocator.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/JettyTlsUtil.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/AbstractNettyHandler.java  
\*  
/opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/WriteQueue.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/SendPingCommand.java  
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jar/io/grpc/netty/MaxConnectionIdleManager.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/KeepAliveEnforcer.java  
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jar/io/grpc/netty/InternalWriteBufferingAndExceptionHandlerUtils.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/InternalProtocolNegotiationEvent.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/InternalProtocolNegotiator.java  
\*  
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jar/io/grpc/netty/WriteBufferingAndExceptionHandler.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/ProtocolNegotiationEvent.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/InternalProtocolNegotiators.java  
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jar/io/grpc/netty/ClientTransportLifecycleManager.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/InternalNettyChannelBuilder.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/StreamIdHolder.java  
\*  
/opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-  
jar/io/grpc/netty/GrpcHttp2ConnectionHandler.java

\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/ForcefulCloseCommand.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/GrpcHttp2OutboundHeaders.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/AbstractHttp2Headers.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/InternalNettyServerBuilder.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/GracefulCloseCommand.java

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\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/NettyServerTransport.java

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\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/NegotiationType.java

\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/NettyReadableBuffer.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/NettyServerStream.java

\*  
/opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/SendGrpcFrameCommand.java  
\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/NettyChannelBuilder.java  
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\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/InsecureFromHttp1ChannelCredentials.java

\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/NettyServerCredentials.java

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/opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/NettySslContextChannelCredentials.java

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\* /opt/cola/permits/1258902305\_1643121070.06/0/grpc-netty-1-39-0-sources-jar/io/grpc/netty/InternalNettyServerCredentials.java

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jar/io/grpc/netty/GrpcHttp2HeadersUtils.java

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## 1.136 swagger-annotations 1.6.2

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- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/Info.java
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- /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ExampleProperty.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ApiModelProperty.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ApiModel.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ResponseHeader.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/Tag.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/SwaggerDefinition.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ApiResponse.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ExtensionProperty.java
- \*
- /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/Extension.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ApiResponse.java
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- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/Api.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ApiImplicitParam.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/AuthorizationScope.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ApiImplicitParams.java
- \* /opt/cola/permits/1260643097\_1643189570.95/0/swagger-annotations-1-6-2-sources-jar/io/swagger/annotations/ApiParam.java
- \*

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/opt/cola/permits/1260643097_1643189570.95/0/swagger-annotations-1-6-2-sources-
jar/io/swagger/annotations/ApiOperation.java
* /opt/cola/permits/1260643097_1643189570.95/0/swagger-annotations-1-6-2-sources-
jar/io/swagger/annotations/Example.java
* /opt/cola/permits/1260643097_1643189570.95/0/swagger-annotations-1-6-2-sources-
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## 1.137 error\_prone\_annotations 2.3.3

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jar/com/google/errorprone/annotations/FormatMethod.java
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jar/com/google/errorprone/annotations/MustBeClosed.java
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jar/com/google/errorprone/annotations/RestrictedApi.java
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jar/com/google/errorprone/annotations/DoNotCall.java  
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jar/com/google/errorprone/annotations/concurrent/GuardedBy.java  
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jar/com/google/errorprone/annotations/concurrent/LockMethod.java  
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jar/com/google/errorprone/annotations/SuppressPackageLocation.java
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jar/com/google/errorprone/annotations/Immutable.java
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jar/com/google/errorprone/annotations/RequiredModifiers.java
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jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1264660152_1643871085.34/0/error-prone-annotations-2-3-3-sources-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java

```

## 1.138 kotlin 1.6.10

### 1.138.1 Available under license :

No license file was found, but licenses were detected in source scan.

```

{"version":3,"file":"kotlin.js","sources":["wrapper.js","js/arrayUtils.js","js/callableReferenceUtils.js","js/conversions.js","js/core.js","js/long.js","js/markerFunctions.js","js/misc.js","js/polyfills.js","js/rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","common/src/generated/_Arrays.kt","common/src/generated/_Ranges.kt","unsigned/src/kotlin/UByte.kt","unsigned/src/kotlin/UInt.kt","unsigned/src/kotlin/UShort.kt","builtin-sources/Ranges.kt","src/kotlin/collections/Collections.kt","src/kotlin/collections/Maps.kt","src/kotlin/collections/Set

```

s.kt","src/kotlin/text/StringNumberConversions.kt","src/kotlin/time/Duration.kt","unsigned/src/kotlin/UnsignedUtils.kt","src/kotlin/collections/Iterables.kt","src/kotlin/collections/Sequences.kt","src/kotlin/util/Preconditions.kt","js/src/generated/\_ArraysJs.kt","src/kotlin/comparisons/Comparisons.kt","src/kotlin/util/Standard.kt","js/src/generated/\_ComparisonsJs.kt","unsigned/src/kotlin/ULong.kt","common/src/generated/\_Collections.kt","js/src/kotlin/collections.kt","src/kotlin/collections/Iterators.kt","common/src/generated/\_Comparisons.kt","common/src/generated/\_Maps.kt","common/src/generated/\_OneToManyTitlecaseMappings.kt","js/src/kotlin/text/char.kt","js/src/kotlin/text/string.kt","src/kotlin/text/Char.kt","src/kotlin/CharCode.kt","common/src/generated/\_Sequences.kt","common/src/generated/\_Sets.kt","common/src/generated/\_Strings.kt","src/kotlin/text/Strings.kt","unsigned/src/kotlin/UByteArray.kt","unsigned/src/kotlin/UIntArray.kt","unsigned/src/kotlin/ULongArray.kt","unsigned/src/kotlin/UShortArray.kt","common/src/generated/\_UArrays.kt","common/src/generated/\_UCollections.kt","common/src/generated/\_UComparisons.kt","common/src/generated/\_URanges.kt","common/src/generated/\_USequences.kt","common/src/kotlin/ExceptionsH.kt","common/src/kotlin/JsAnnotationsH.kt","common/src/kotlin/ioH.kt","builtin-sources/Collections.kt","builtin-sources/Iterators.kt","builtin-sources/ProgressionIterators.kt","builtin-sources/Progressions.kt","builtin-sources/Range.kt","builtin-sources/Unit.kt","builtin-sources/annotation/Annotations.kt","builtin-sources/internal/InternalAnnotations.kt","builtin-sources/internal/progressionUtil.kt","src/kotlin/builtins.kt","src/kotlin/jsTypeOf.kt","src/kotlin/kotlin.kt","src/kotlin/CharCode\_js-v1.kt","src/kotlin/coroutines/CoroutineImpl.kt","src/kotlin/util/Result.kt","src/kotlin/coroutines/Continuation.kt","src/kotlin/coroutines/intrinsics/IntrinsicsJs.kt","src/kotlin/currentBeMisc.kt","src/kotlin/exceptions.kt","src/kotlin/jsOperators.kt","src/kotlin/math\_js-v1.kt","src/kotlin/numbers\_js-v1.kt","src/kotlin/reflection\_js-v1.kt","src/kotlin/text/numberConversions\_js-v1.kt","js/src/generated/\_CharCategories.kt","js/src/generated/\_CollectionsJs.kt","js/src/generated/\_DigitChars.kt","js/src/generated/\_LetterChars.kt","js/src/generated/\_OtherLowercaseChars.kt","js/src/generated/\_OtherUppercaseChars.kt","js/src/generated/\_StringsJs.kt","js/src/generated/\_TitlecaseMappings.kt","js/src/generated/\_UArraysJs.kt","js/src/generated/\_WhitespaceChars.kt","js/src/kotlin/Comparator.kt","js/src/kotlin/annotations.kt","js/src/kotlin/annotationsJVM.kt","js/src/kotlin/collections/AbstractMutableCollection.kt","js/src/kotlin/collections/AbstractMutableList.kt","js/src/kotlin/collections/AbstractMutableMap.kt","js/src/kotlin/collections/AbstractMutableSet.kt","js/src/kotlin/collections/ArrayList.kt","js/src/kotlin/collections/ArraySorting.kt","js/src/kotlin/collections/ArraysJs.kt","js/src/kotlin/collections/EqualityComparator.kt","js/src/kotlin/collections/HashMap.kt","js/src/kotlin/collections/HashSet.kt","js/src/kotlin/collections/InternalHashMap.kt","js/src/kotlin/collections/InternalMap.kt","js/src/kotlin/collections/InternalStringMap.kt","js/src/kotlin/collections/LinkedHashMap.kt","js/src/kotlin/collections/LinkedHashSet.kt","js/src/kotlin/concurrent.kt","js/src/kotlin/console.kt","js/src/kotlin/coroutines/SafeContinuationJs.kt","js/src/kotlin/coroutines/cancellation/CancellationException.kt","js/src/kotlin/coroutines/js/internal/EmptyContinuation.kt","js/src/kotlin/date.kt","js/src/kotlin/dom/Builders.kt","js/src/kotlin/dom/Classes.kt","js/src/kotlin/dom/Dom.kt","js/src/kotlin/dom/EventListener.kt","js/src/kotlin/dom/ItemArrayLike.kt","js/src/kotlin/dom/Mutations.kt","js/src/kotlin/dynamic.kt","js/src/kotlin/exceptionUtils.kt","js/src/kotlin/grouping.kt","src/kotlin/collections/Grouping.kt","js/src/kotlin/jsOn.kt","js/src/kotlin/math.kt","js/src/kotlin/numbers.kt","js/src/kotlin/promise.kt","js/src/kotlin/random/PlatformRandom.kt","js/src/kotlin/reflect/AssociatedObjects.kt","js/src/kotlin/reflect/JsClass.kt","js/src/kotlin/reflect/KClassImpl.kt","js/src/kotlin/reflect/KClassesImpl.kt","js/src/kotlin/reflect/KTypeHelpers.kt","js/src/kotlin/reflect/KTypeImpl.kt","js/src/kotlin/reflect/KTypeParameterImpl.kt","js/src/kotlin/reflect/primitives.kt","js/src/kotlin/reflect/reflection.kt","js/src/kotlin/regexp.kt","js/src/kotlin/sequence.kt","js/src/kotlin/text/CharCategoryJS.kt","js/src/kotlin/text/CharacterCodingExceptionJs.kt","js/src/kotlin/text/StringBuilderJs.kt","js/src/kotlin/text/numberConversions.kt","js/src/kotlin/text/regexp.kt","src/kotlin/text/StringBuilder.kt","js/src/kotlin/text/stringsCode.kt","js/src/kotlin/text/utf8Encoding.kt","js/src/kotlin/throwableExtensions.kt","js/src/kotlin/time/DurationJs.kt","js/src/kotlin/time/DurationUnit.kt","js/src/kotlin/time/MonoTimeSource.kt","js/src/kotlinx/dom/Builders.kt","js/src/kotlinx/dom/Classes.kt","src/kotlin/text/regex/RegexExtensions.kt","js/src/kotlinx/dom/Dom.kt","js/src/kotlinx/dom/Mutations.kt","js/src/org.w3c/deprecated.kt","js/src/org.w3c/org.khronos.webgl.kt","js/src/org.w3c/org.w3c.dom.clipboard.kt","js/src/org.w3c/org.w3c.dom.css.kt","js/src/org.w3c/org.w3c.dom.encryptedmedia.kt","js/src/org.w3c/org.w3c.dom.events.kt","js/src/org.w3c/o

rg.w3c.dom.kt", "js/src/org.w3c/org.w3c.fetch.kt", "js/src/org.w3c/org.w3c.dom.mediacapture.kt", "js/src/org.w3c/org.w3c.dom.mediasource.kt", "js/src/org.w3c/org.w3c.dom.pointerevents.kt", "js/src/org.w3c/org.w3c.dom.svg.kt", "js/src/org.w3c/org.w3c.files.kt", "js/src/org.w3c/org.w3c.notifications.kt", "js/src/org.w3c/org.w3c.workers.kt", "js/src/org.w3c/org.w3c.xhr.kt", "src/kotlin/annotations/Experimental.kt", "src/kotlin/annotations/ExperimentalStdlibApi.kt", "src/kotlin/annotations/Inference.kt", "src/kotlin/annotations/Multiplatform.kt", "src/kotlin/annotations/OptIn.kt", "src/kotlin/collections/AbstractCollection.kt", "src/kotlin/collections/AbstractIterator.kt", "src/kotlin/collections/AbstractList.kt", "src/kotlin/collections/AbstractMap.kt", "src/kotlin/collections/AbstractSet.kt", "src/kotlin/collections/ArrayDeque.kt", "src/kotlin/collections/Arrays.kt", "src/kotlin/collections/BrittleContainsOptimization.kt", "src/kotlin/collections/IndexedValue.kt", "src/kotlin/collections/MapAccessors.kt", "src/kotlin/collections/MapWithDefault.kt", "src/kotlin/collections/MutableCollections.kt", "src/kotlin/collections/ReversedViews.kt", "src/kotlin/collections/SequenceBuilder.kt", "src/kotlin/collections/SlidingWindow.kt", "src/kotlin/collections/UArraySorting.kt", "src/kotlin/comparisons/compareTo.kt", "src/kotlin/contracts/ContractBuilder.kt", "src/kotlin/coroutines/ContinuationInterceptor.kt", "src/kotlin/coroutines/CoroutineContext.kt", "src/kotlin/coroutines/CoroutineContextImpl.kt", "src/kotlin/coroutines/intrinsics/Intrinsics.kt", "src/kotlin/experimental/bitwiseOperations.kt", "src/kotlin/experimental/inferenceMarker.kt", "src/kotlin/internal/Annotations.kt", "src/kotlin/properties/Delegates.kt", "src/kotlin/properties/Interfaces.kt", "src/kotlin/properties/ObservableProperty.kt", "src/kotlin/properties/PropertyReferenceDelegates.kt", "src/kotlin/random/Random.kt", "src/kotlin/random/URandom.kt", "src/kotlin/random/XorWowRandom.kt", "src/kotlin/ranges/Ranges.kt", "src/kotlin/reflect/KClasses.kt", "src/kotlin/reflect/KTypeProjection.kt", "src/kotlin/reflect/KVariance.kt", "src/kotlin/reflect/typeOf.kt", "src/kotlin/text/Appendable.kt", "src/kotlin/text/Indent.kt", "src/kotlin/text/Typography.kt", "src/kotlin/text/regex/MatchResult.kt", "src/kotlin/time/DurationUnit.kt", "src/kotlin/time/ExperimentalTime.kt", "src/kotlin/time/TimeSource.kt", "src/kotlin/time/TimeSources.kt", "src/kotlin/time/measureTime.kt", "src/kotlin/util/DeepRecursive.kt", "src/kotlin/util/FloorDivMod.kt", "src/kotlin/util/HashCode.kt", "src/kotlin/util/KotlinVersion.kt", "src/kotlin/util/Lateinit.kt", "src/kotlin/util/Lazy.kt", "src/kotlin/util/Numbers.kt", "src/kotlin/util/Suspend.kt", "src/kotlin/util/Tuples.kt", "unsigned/src/kotlin/UIntRange.kt", "unsigned/src/kotlin/UIterators.kt", "unsigned/src/kotlin/ULongRange.kt", "unsigned/src/kotlin/UMath.kt", "unsigned/src/kotlin/UNumbers.kt", "unsigned/src/kotlin/UProgressionUtil.kt", "unsigned/src/kotlin/UStrings.kt", "unsigned/src/kotlin/annotations/Unsigned.kt", "common/src/kotlin/MathH.kt"], "sourcesContent": ["(function

```
(root, factory) {\n
```

```
  if (typeof define === 'function' && define.amd) {\n    define('kotlin', ['exports'], factory);\n  }\n  else if (typeof exports === 'object') {\n    factory(module.exports);\n  }\n  else {\n    root.kotlin = {};\n    factory(root.kotlin);\n  }\n}(this, function (Kotlin) {\n  var _ = Kotlin;\n\n  insertContent();\n});\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
```

```
*/\n\nKotlin.isBooleanArray = function (a) {\n  return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === \"BooleanArray\";\n}\n\nKotlin.isByteArray = function (a) {\n  return a instanceof Int8Array && a.$type$ !== \"BooleanArray\";\n}\n\nKotlin.isShortArray = function (a) {\n  return a instanceof Int16Array;\n}\n\nKotlin.isCharArray = function (a) {\n  return a instanceof Uint16Array && a.$type$ === \"CharArray\";\n}\n\nKotlin.isIntArray
```

```
  = function (a) {\n    return a instanceof Int32Array;\n  }\n\n  Kotlin.isFloatArray = function (a) {\n    return a instanceof Float32Array;\n  }\n\n  Kotlin.isDoubleArray = function (a) {\n    return a instanceof Float64Array;\n  }\n\n  Kotlin.isLongArray = function (a) {\n    return Array.isArray(a) && a.$type$ === \"LongArray\";\n  }\n\n  Kotlin.isArray = function (a) {\n    return Array.isArray(a) && !a.$type$;\n  }\n\n  Kotlin.isArrayish = function (a) {\n    return Array.isArray(a) ||
```

```
ArrayBuffer.isView(a);\n}\n\nKotlin.arrayToString = function (a) {\n  if (a === null) return \"null\";\n  var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n  return \"[\" + Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\n}\n\nKotlin.arrayDeepToString = function (arr) {\n  return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n}\n\nKotlin.arrayEquals = function (a, b) {\n  if (a === b) {\n    return true;\n  }\n
```

```
  return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n}\n\nKotlin.arrayEquals = function (a, b) {\n  if (a === b) {\n    return true;\n  }\n
```

```

    }
    if (a === null || b === null || !Kotlin.isArrayish(b) || a.length !== b.length) {
        return false;
    }
    for (var i = 0, n = a.length; i < n; i++) {
        if (!Kotlin.equals(a[i], b[i])) {
            return false;
        }
    }
    return true;
};

Kotlin.arrayDeepEquals = function (a, b) {
    return
    Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);
};

Kotlin.arrayHashCode = function (arr) {
    if (arr
    === null) return 0;
    var result = 1;
    for (var i = 0, n = arr.length; i < n; i++) {
        result = ((31 * result | 0) +
        Kotlin.hashCode(arr[i])) | 0;
    }
    return result;
};

Kotlin.arrayDeepHashCode = function (arr) {
    return
    Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);
};

Kotlin.primitiveArraySort = function (array) {
    array.sort(Kotlin.doubleCompareTo);
};

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    Language contributors.
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    by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
    */
Kotlin.getCallableRef =
function(name, f) {
    f.callableName = name;
    return f;
};

Kotlin.getPropertyCallableRef = function(name,
paramCount, getter, setter) {
    getter.get = getter;
    getter.set = setter;
    getter.callableName = name;
    return getPropertyRefClass(getter, setter, propertyRefClassMetadataCache[paramCount]);
};

function
getPropertyRefClass(obj, setter, cache) {
    obj.$metadata$ = getPropertyRefMetadata(typeof setter ===
    "function" ? cache.mutable : cache.immutable);
    obj.constructor = obj;
    return obj;
};

nvar
propertyRefClassMetadataCache = [
    {
        mutable: {
            value: null,
            implementedInterface: function () {
                return Kotlin.kotlin.reflect.KMutableProperty0;
            }
        },
        immutable: {
            value: null,
            implementedInterface:
            function () {
                return Kotlin.kotlin.reflect.KProperty0;
            }
        }
    },
    {
        mutable: {
            value: null,
            implementedInterface: function () {
                return
                Kotlin.kotlin.reflect.KMutableProperty1;
            }
        },
        immutable: {
            value: null,
            implementedInterface: function
            () {
                return Kotlin.kotlin.reflect.KProperty1;
            }
        }
    }
];

function getPropertyRefMetadata(cache)
{
    if (cache.value === null) {
        cache.value = {
            interfaces: [cache.implementedInterface()],
            baseClass: null,
            functions: {},
            properties: {},
            types: {},
            staticMembers: {}
        };
    }
    return cache.value;
};

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    license/LICENSE.txt file.
    */
Kotlin.toShort = function (a) {
    return (a & 0xFFFF) << 16 >>
    16;
};

Kotlin.toByte = function (a) {
    return (a & 0xFF) << 24 >> 24;
};

Kotlin.toChar
= function (a) {
    return a & 0xFFFF;
};

Kotlin.numberToLong = function (a) {
    return a instanceof
    Kotlin.Long ? a : Kotlin.Long.fromNumber(a);
};

Kotlin.numberToInt = function (a) {
    return a instanceof
    Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);
};

Kotlin.numberToShort = function (a) {
    return
    Kotlin.toShort(Kotlin.numberToInt(a));
};

Kotlin.numberToByte = function (a) {
    return
    Kotlin.toByte(Kotlin.numberToInt(a));
};

Kotlin.numberToDouble = function (a) {
    return
    +a;
};

Kotlin.numberToChar = function (a) {
    return
    Kotlin.toChar(Kotlin.numberToInt(a));
};

Kotlin.doubleToInt = function(a) {
    if (a > 2147483647) return
    2147483647;
    if (a < -2147483648) return -2147483648;
    return a | 0;
};

Kotlin.toBoxedChar = function
(a) {
    if (a == null) return a;
    if (a instanceof Kotlin.BoxedChar) return a;
    return new
    Kotlin.BoxedChar(a);
};

Kotlin.unboxChar = function(a) {
    if (a ==
    null) return a;
    return Kotlin.toChar(a);
};

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    Programming Language contributors.
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    found in the license/LICENSE.txt file.
    */
Kotlin.equals = function (obj1, obj2) {
    if (obj1 == null) {
        return obj2 == null;
    }
    if (obj2 == null) {
        return false;
    }
    if (obj1 !== obj2) {
        return
        obj2 !== obj2;
    }
    if (typeof obj1 === "object" && typeof obj1.equals === "function") {
        return
        obj1.equals(obj2);
    }
    if (typeof obj1 === "number" && typeof obj2 === "number") {
        return obj1
        === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2);
    }
    return obj1 === obj2;
};

Kotlin.hashCode =
function (obj) {
    if (obj == null) {
        return 0;
    }
    var objType = typeof obj;
    if ("object" ===
    objType) {
        return "function" === typeof obj.hashCode
        ? obj.hashCode() : getObjectHashCode(obj);
    }
    if ("function" === objType) {
        return
        getObjectHashCode(obj);
    }
    if ("number" === objType) {
        return Kotlin.numberHashCode(obj);
    }
};

```

```

}n if ("boolean" === objType) {n    return Number(obj)n }n var str = String(obj);n return
getStringHashCode(str);n};n\n\nKotlin.toString = function (o) {n if (o == null) {n    return "null";n }n
else if (Kotlin.isArrayish(o)) {n    return "[...]";n }n else {n    return o.toString();n }n};n\n\n/**
@const *^nvar POW_2_32 = 4294967296;n// TODO: consider switching to Symbol type once we are on ES6.n\n\n**
@const *^nvar OBJECT_HASH_CODE_PROPERTY_NAME = "kotlinHashCodeValue$";n\n\nfunction
getObjectHashCode(obj) {n if (!(OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {n    var hash =
(Math.random() * POW_2_32) | 0; // Make 32-bit signed integer.n    Object.defineProperty(obj,
OBJECT_HASH_CODE_PROPERTY_NAME,
    { value: hash, enumerable: false });n }n return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];n}\n\n\nfunction getStringHashCode(str) {n    var hash = 0;n
for (var i = 0; i < str.length; i++) {n    var code = str.charCodeAt(i);n    hash = (hash * 31 + code) | 0; // Keep
it 32-bit.n }n return hash;n}\n\n\nKotlin.identityHashCode = getObjectHashCode;n", "/**n * Copyright 2010-
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the Apache 2.0 license that can be found in the license/LICENSE.txt file.n *^n\n// Copyright 2009 The Closure
Library Authors. All Rights Reserved.\n\n\n// Licensed under the Apache License, Version 2.0 (the "License");n\n
you may not use this file except in compliance with the License.n\n// You may obtain a copy of the License at\n\n\n//
http://www.apache.org/licenses/LICENSE-2.0\n\n\n// Unless required by applicable law or agreed to in writing,
software\n\n//
distributed under the License is distributed on an "AS-IS" BASIS,\n\n// WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.\n\n\n\n**n * Constructs a 64-bit two's-complement integer,
given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n *
convenient ways of constructing Longs.n *^n * The internal representation of a long is the two given signed, 32-bit
values.n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-
operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can
easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.n
*n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the
input(s) and then post-processing the result.n * Note that we must ALWAYS check specially whether those values
are MIN_VALUE\n
* (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\n * a positive number, it
overflows back into a negative). Not handling this\n * case would often result in infinite recursion.n *^n * @param
{number} low The low (signed) 32 bits of the long.n * @param {number} high The high (signed) 32 bits of the
long.n * @constructor\n * @final\n *^n\n\nKotlin.Long = function(low, high) {n /**n * @type {number}n *
@private\n *^n this.low_ = low | 0; // force into 32 signed bits.n\n /**n * @type {number}n * @private\n
*^n this.high_ = high | 0; // force into 32 signed bits.n};n\n\n\nKotlin.Long.$metadata$ = {n kind: "class",n
simpleName: "Long",n interfaces: []};n\n\n\n// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc.
are defined below the\n\n// from* methods on which they depend.n\n\n\n\n**n * A cache of the Long representations of
small integer values.n * @type {!Object}n * @private\n *^n\n\nKotlin.Long.IntCache_ = {};n\n\n\n\n**n
* Returns a Long representing the given (32-bit) integer value.n * @param {number} value The 32-bit integer in
question.n * @return {!Kotlin.Long} The corresponding Long value.n *^n\n\n\nKotlin.Long.fromInt = function(value)
{n if (-128 <= value && value < 128) {n    var cachedObj = Kotlin.Long.IntCache_[value];n    if (cachedObj) {n
return cachedObj;n }n }n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);n if (-128 <= value &&
value < 128) {n    Kotlin.Long.IntCache_[value] = obj;n }n return obj;n};n\n\n\n\n**n * Converts this number
value to `Long`.n * The fractional part, if any, is rounded down towards zero.n * Returns zero if this `Double`
value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\n * `Long.MAX_VALUE` if it's bigger
than `Long.MAX_VALUE`.n * @param {number} value The number in question.n * @return {!Kotlin.Long} The
corresponding Long value.n *^n\n\n\nKotlin.Long.fromNumber = function(value) {n if (isNaN(value))
{n return Kotlin.Long.ZERO;n } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {n return
Kotlin.Long.MIN_VALUE;n } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {n return

```

```

Kotlin.Long.MAX_VALUE;\n } else if (value < 0) {\n     return Kotlin.Long.fromNumber(-value).negate();\n }
else {\n     return new Kotlin.Long(\n         (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n         (value /
Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n };\n\n\n**\n * Returns a Long representing the 64-bit integer that
comes by concatenating\n * the given high and low bits. Each is assumed to use 32 bits.\n * @param {number}
lowBits The low 32-bits.\n * @param {number} highBits The high 32-bits.\n * @return {!Kotlin.Long} The
corresponding Long value.\n */\nKotlin.Long.fromBits = function(lowBits, highBits) {\n     return new
Kotlin.Long(lowBits, highBits);\n };\n\n\n**\n * Returns a Long representation of the given string, written using the
given\n * radix.\n * @param {string} str The textual
representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return
{!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromString = function(str, opt_radix) {\n     if
(str.length == 0) {\n         throw Error('number format error: empty string');\n     }\n\n     var radix = opt_radix || 10;\n     if
(radix < 2 || 36 < radix) {\n         throw Error('radix out of range: ' + radix);\n     }\n\n     if (str.charAt(0) == '-') {\n         return
Kotlin.Long.fromString(str.substring(1), radix).negate();\n     } else if (str.indexOf('.') >= 0) {\n         throw Error('number
format error: interior \\'-\'' character: ' + str);\n     }\n\n     // Do several (8) digits each time through the loop, so as to\n //
minimize the calls to the very expensive emulated div.\n     var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 8));\n     var result = Kotlin.Long.ZERO;\n     for (var i = 0; i < str.length;
i += 8) {\n         var size = Math.min(8, str.length - i);\n         var value = parseInt(str.substring(i,
i + size), radix);\n         if (size < 8) {\n             var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n             result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n         } else {\n             result =
result.multiply(radixToPower);\n             result = result.add(Kotlin.Long.fromNumber(value));\n         }\n     }\n     return
result;\n };\n\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n\n**\n * Number used repeated below in calculations.
This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_32_DBL_ =\n     Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_31_DBL_
=\n     Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_48_DBL_ =\n     Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_64_DBL_ =\n     Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_63_DBL_ =\n     Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n\n**\n * @type
{!Kotlin.Long} *\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n**\n * @type {!Kotlin.Long}
*\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n**\n * @type {!Kotlin.Long} *\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n\n**\n * @type {!Kotlin.Long} *\nKotlin.Long.MAX_VALUE =\n     Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n**\n * @type {!Kotlin.Long}
*\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n**\n * @type {!Kotlin.Long}\n *
@private\n *\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1
<< 24);\n\n\n**\n * @return {number} The value, assuming it is a 32-bit integer. *\nKotlin.Long.prototype.toInt =
function() {\n     return this.low_;\n };\n\n\n**\n * @return {number} The closest floating-point representation to this
value. *\nKotlin.Long.prototype.toNumber = function() {\n     return this.high_ *
Kotlin.Long.TWO_PWR_32_DBL_ +\n         this.getLowBitsUnsigned();\n };\n\n\n**\n * @return {number} The 32-bit
hashCode of this value. *\nKotlin.Long.prototype.hashCode = function() {\n     return this.high_ ^
this.low_;\n };\n\n\n**\n * @param {number=} opt_radix The radix in which the text should be written.\n * @return
{string} The textual representation of this value.\n * @override\n *\nKotlin.Long.prototype.toString =
function(opt_radix) {\n     var radix = opt_radix || 10;\n     if (radix < 2 || 36 < radix) {\n         throw Error('radix out of

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range: '+' + radix);\n } \n\n if (this.isZero()) {\n return '0';\n }\n\n if (this.isNegative()) {\n if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
// We need to change the Long value before it can be negated, so we remove\n // the bottom-most digit in this
base and then recurse to do the rest.\n var radixLong = Kotlin.Long.fromNumber(radix);\n var div =
this.div(radixLong);\n var rem = div.multiply(radixLong).subtract(this);\n return div.toString(radix) +
rem.toInt().toString(radix);\n } else {\n return '-' + this.negate().toString(radix);\n }\n }\n\n // Do several (6)
digits each time through the loop, so as to\n // minimize the calls to the very expensive emulated div.\n var
radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 6));\n\n var rem = this;\n var result = "";\n while (true)
{\n var remDiv = rem.div(radixToPower);\n var intVal =
rem.subtract(remDiv.multiply(radixToPower)).toInt();\n var digits = intVal.toString(radix);\n\n rem = remDiv;\n
if (rem.isZero()) {\n return digits + result;\n } else {\n while (digits.length < 6) {\n digits = '0'
+ digits;\n }\n result = " + digits + result;\n }\n }\n\n\n/** @return {number} The high 32-bits as a
signed value. */\nKotlin.Long.prototype.getHighBits = function() {\n return this.high_;\n};\n\n\n/** @return
{number} The low 32-bits as a signed value. */\nKotlin.Long.prototype.getLowBits = function() {\n return
this.low_;\n};\n\n\n/** @return {number} The low 32-bits as an unsigned value.
*/\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n return (this.low_ >= 0) ?\n this.low_ :
Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n\n/**\n * @return {number} Returns the number of bits
needed to represent the absolute\n * value of this Long.\n */\nKotlin.Long.prototype.getNumBitsAbs = function()
{\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return 64;\n } else {\n
return this.negate().getNumBitsAbs();\n }\n } else {\n var val = this.high_ != 0 ? this.high_ : this.low_;\n for
(var bit = 31;\n bit > 0; bit--) {\n if ((val & (1 << bit)) != 0) {\n break;\n }\n }\n return this.high_ != 0 ? bit + 33 : bit
+ 1;\n }\n};\n\n\n/** @return {boolean} Whether this value is zero. */\nKotlin.Long.prototype.isZero = function()
{\n return this.high_ == 0 && this.low_ == 0;\n};\n\n\n/** @return {boolean} Whether this value is negative.
*/\nKotlin.Long.prototype.isNegative = function() {\n return this.high_ < 0;\n};\n\n\n/** @return {boolean}
Whether this value is odd. */\nKotlin.Long.prototype.isOdd = function() {\n return (this.low_ & 1) ==
1;\n};\n\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this
Long equals the other.\n */\nKotlin.Long.prototype.equalsLong = function(other) {\n return (this.high_ ==
other.high_) && (this.low_ == other.low_);\n};\n\n\n\n/**\n * @param {Kotlin.Long} other Long to compare
against.\n * @return {boolean} Whether this Long does not equal the other.\n
*/\nKotlin.Long.prototype.notEqualsLong
= function(other) {\n return (this.high_ != other.high_) || (this.low_ != other.low_);\n};\n\n\n\n\n/**\n * @param
{Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than the other.\n
*/\nKotlin.Long.prototype.lessThan = function(other) {\n return this.compare(other) < 0;\n};\n\n\n\n\n/**\n * @param
{Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than or equal to the
other.\n */\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\n return this.compare(other) <=
0;\n};\n\n\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this
Long is greater than the other.\n */\nKotlin.Long.prototype.greaterThan = function(other) {\n return
this.compare(other) > 0;\n};\n\n\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return
{boolean} Whether this Long is greater than or equal to the other.\n */\nKotlin.Long.prototype.greaterThanOrEqual
= function(other)
{\n return this.compare(other) >= 0;\n};\n\n\n\n\n\n/**\n * @param
{Kotlin.Long} other Long to compare against.\n * @return {number} 0 if they are the same, 1 if the this is greater,
and -1\n * if the given one is greater.\n */\nKotlin.Long.prototype.compare = function(other) {\n if
(this.equalsLong(other)) {\n return 0;\n }\n\n var thisNeg = this.isNegative();\n var otherNeg =
other.isNegative();\n if (thisNeg && !otherNeg) {\n return -1;\n }\n if (!thisNeg && otherNeg) {\n return 1;\n
}\n\n // at this point, the signs are the same, so subtraction will not overflow\n if (this.subtract(other).isNegative())
{\n return -1;\n } else {\n return 1;\n }\n};\n\n\n\n\n\n/** @return {!Kotlin.Long} The negation of this value.
*/\nKotlin.Long.prototype.negate = function() {\n return this.isNegative() ?\n this.negate().negate() :\n this;\n};\n\n\n\n\n\n

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* Kotlin.Long.prototype.negate = function() {
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return Kotlin.Long.MIN_VALUE;
  } else {
    return this.not().add(Kotlin.Long.ONE);
  }
};

* Returns the sum of this and the given Long.
* @param {Kotlin.Long} other Long to add to this one.
* @return {!Kotlin.Long} The sum of this and the given Long.

Kotlin.Long.prototype.add = function(other) {
  // Divide each number into 4 chunks of 16 bits, and then sum the chunks.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;
  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;
  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
  c00 += a00 + b00;
  c16 += c00 >>> 16;
  c00 &= 0xFFFF;
  c16 += a16 + b16;
  c32 += c16 >>> 16;
  c16 &= 0xFFFF;
  c32 += a32 + b32;
  c48 += c32 >>> 16;
  c32 &= 0xFFFF;
  c48 += a48 + b48;
  c48 &= 0xFFFF;
  return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);
};

* Returns the difference of this and the given Long.
* @param {Kotlin.Long} other Long to subtract from this.
* @return {!Kotlin.Long} The difference of this and the given Long.

Kotlin.Long.prototype.subtract = function(other) {
  return this.add(other.negate());
};

* Returns the product of this and the given long.
* @param {Kotlin.Long} other Long to multiply with this.
* @return {!Kotlin.Long} The product of this and the other.

Kotlin.Long.prototype.multiply = function(other) {
  if (this.isZero()) {
    return Kotlin.Long.ZERO;
  } else if (other.isZero()) {
    return Kotlin.Long.ZERO;
  }
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;
  } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;
  }
  if (this.isNegative()) {
    if (other.isNegative()) {
      return this.negate().multiply(other.negate());
    } else if (other.isNegative()) {
      return this.multiply(other.negate()).negate();
    }
  } else if (other.isNegative()) {
    return this.multiply(other.negate()).negate();
  }
  // If both longs are small, use float multiplication
  if (this.lessThan(Kotlin.Long.TWO_PWR_24_) && other.lessThan(Kotlin.Long.TWO_PWR_24_)) {
    return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());
  }
  // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.
  // We can skip products that would overflow.
  var a48 = this.high_ >>> 16;
  var a32 = this.high_ & 0xFFFF;
  var a16 = this.low_ >>> 16;
  var a00 = this.low_ & 0xFFFF;
  var b48 = other.high_ >>> 16;
  var b32 = other.high_ & 0xFFFF;
  var b16 = other.low_ >>> 16;
  var b00 = other.low_ & 0xFFFF;
  var c48 = 0, c32 = 0, c16 = 0, c00 = 0;
  c00 += a00 * b00;
  c16 += c00 >>> 16;
  c00 &= 0xFFFF;
  c16 += a16 * b00;
  c32 += c16 >>> 16;
  c16 &= 0xFFFF;
  c16 += a00 * b16;
  c32 += c16 >>> 16;
  c16 &= 0xFFFF;
  c32 += a32 * b00;
  c48 += c32 >>> 16;
  c32 &= 0xFFFF;
  c32 += a16 * b16;
  c48 += c32 >>> 16;
  c32 &= 0xFFFF;
  c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;
  c48 &= 0xFFFF;
  return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);
};

* Returns this Long divided by the given one.
* @param {Kotlin.Long} other Long by which to divide.
* @return {!Kotlin.Long} This Long divided by the given one.

Kotlin.Long.prototype.div = function(other) {
  if (other.isZero()) {
    throw Error('division by zero');
  } else if (this.isZero()) {
    return Kotlin.Long.ZERO;
  }
  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
    if (other.equalsLong(Kotlin.Long.ONE) || other.equalsLong(Kotlin.Long.NEG_ONE)) {
      return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE == MIN_VALUE
    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return Kotlin.Long.ONE;
    } else {
      // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.
      var halfThis = this.shiftRight(1);
      var approx = halfThis.div(other).shiftLeft(1);
      if (approx.equalsLong(Kotlin.Long.ZERO)) {
        return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;
      } else {
        var rem = this.subtract(other.multiply(approx));
        var result = approx.add(rem.div(other));
        return result;
      }
    }
  } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {
    return Kotlin.Long.ZERO;
  }
  if (this.isNegative()) {
    if (other.isNegative()) {
      return this.negate().div(other.negate());
    } else {
      return this.negate().div(other).negate();
    }
  } else if (other.isNegative()) {
    return

```



this.div(other.negate()).negate();\n }\n\n // Repeat the following until the remainder is less than other: find a\n // floating-point that approximates remainder / other \*from below\*, add this\n // into the result, and subtract it from the remainder.

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It is critical that\n // the approximate value is less than or equal to the real value so that the\n // remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem = this;\n while (rem.greaterThanOrEqual(other)) {\n // Approximate the result of division. This may be a little greater or\n // smaller than the actual value.\n var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n // We will tweak the approximate result by changing it in the 48-th digit or\n // the smallest non-fractional digit, whichever is larger.\n var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n var delta = (log2 <= 48) ? 1 : Math.pow(2, log2 - 48);\n // Decrease the approximation until it is smaller than the remainder. Note\n // that if it is too large, the product overflows and is negative.\n var approxRes = Kotlin.Long.fromNumber(approx);\n var approxRem = approxRes.multiply(other);\n while (approxRem.isNegative() || approxRem.greaterThan(rem))\n {\n approx -= delta;\n approxRes = Kotlin.Long.fromNumber(approx);\n approxRem = approxRes.multiply(other);\n }\n\n // We know the answer can't be zero... and actually, zero would cause\n // infinite recursion since we would make no progress.\n if (approxRes.isZero()) {\n approxRes = Kotlin.Long.ONE;\n }\n\n res = res.add(approxRes);\n rem = rem.subtract(approxRem);\n }\n return res;\n};\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long by which to mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n */\nKotlin.Long.prototype.modulo = function(other) {\n return this.subtract(this.div(other).multiply(other));\n};\n\n/**\n * @return {!Kotlin.Long} The bitwise-NOT of this value.\n */\nKotlin.Long.prototype.not = function() {\n return Kotlin.Long.fromBits(~this.low_,\n ~this.high_);\n};\n\n/**\n * Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\nKotlin.Long.prototype.and = function(other) {\n return Kotlin.Long.fromBits(this.low_ & other.low_,\n this.high_ & other.high_);\n};\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to OR.\n * @return {!Kotlin.Long} The bitwise-OR of this and the other.\n */\nKotlin.Long.prototype.or = function(other) {\n return Kotlin.Long.fromBits(this.low_ | other.low_,\n this.high_ | other.high_);\n};\n\n/**\n * Returns the bitwise-XOR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long} The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor = function(other) {\n return Kotlin.Long.fromBits(this.low_ ^ other.low_,\n this.high_ ^ other.high_);\n};\n\n/**\n * Returns this Long with bits shifted to the left by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n */\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var low = this.low_;\n if (numBits < 32) {\n var high = this.high_;\n return Kotlin.Long.fromBits(\n low << numBits,\n (high << numBits) | (low >>> (32 - numBits)));\n } else {\n return Kotlin.Long.fromBits(0, low << (numBits - 32));\n }\n }\n};\n\n/**\n * Returns this Long with bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount.\n */\nKotlin.Long.prototype.shiftRight = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n if (numBits < 32) {\n var low = this.low_;\n return Kotlin.Long.fromBits(\n (low >>> numBits) | (high << (32 - numBits)),\n high >> numBits);\n } else {\n return Kotlin.Long.fromBits(\n high >> (numBits - 32),\n high >= 0 ? 0 : -1);\n }\n }\n};\n\n/**\n * Returns this Long with bits shifted to the right by the given amount, with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n * zeros placed into the new leading bits.\n */\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n if (numBits < 32) {\n var low = this.low_;\n return Kotlin.Long.fromBits(\n (low >>> numBits) | (high << (32 - numBits)),\n high >>> numBits);\n }

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    } else if (numBits == 32) {\n    return Kotlin.Long.fromBits(high, 0);\n    } else {\n    return
Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n    }\n};\n\n// Support for
Kotlin\nKotlin.Long.prototype.equals = function (other) {\n    return other instanceof Kotlin.Long &&
this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ =
Kotlin.Long.prototype.compare;\n\nKotlin.Long.prototype.inc = function() {\n    return
this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n    return
this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n    return
this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n    return
this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\nKotlin.Long.prototype.inv =
Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n    return new
Kotlin.kotlin.ranges.LongRange(this, other);\n};\n\n"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n**\n * @param {string} id\n *
@param {Object} declaration\n */\n\nKotlin.defineModule = function (id, declaration)
{\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n    return fun;\n};\n\nKotlin.wrapFunction =
function(fun) {\n    var f = function() {\n        f = fun();\n        return f.apply(this, arguments);\n    };
\n    return
function() {\n        return f.apply(this, arguments);\n    };
\n};\n\nKotlin.isTypeOf = function(type) {\n    return
function (object) {\n        return typeof object === type;\n    }\n};\n\nKotlin.isInstanceOf = function (klass) {\n
return function (object) {\n        return Kotlin.isType(object, klass);\n    }\n};\n\nKotlin.orNull = function (fn) {\n
return function (object) {\n        return object == null || fn(object);\n    }\n};\n\nKotlin.andPredicate
= function (a, b) {\n    return function (object) {\n        return a(object) && b(object);\n
}\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data) {\n};\n\nKotlin.suspendCall =
function(value) {\n    return value;\n};\n\nKotlin.coroutineResult = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n
throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n
throwMarkerError();\n};\n\nfunction throwMarkerError() {\n    throw new Error(\n        \"This marker function
should never be called. \n\" +\n        \"Looks like compiler did not eliminate it properly. \n\" +\n        \"Please, report
an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n
return function() {\n        return defaultValue;\n    }\n};\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n    var typeA = typeof a;\n    if
(typeA === \"number\") {\n        if (typeof b === \"number\") {\n            return Kotlin.doubleCompareTo(a, b);\n
}\n        return Kotlin.primitiveCompareTo(a, b);\n    }\n    if (typeA === \"string\" || typeA === \"boolean\") {\n
return Kotlin.primitiveCompareTo(a, b);\n    }\n    return
a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n    return a < b ? -1 : a > b ? 1 :
0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n    if (a < b) return -1;\n    if (a > b) return 1;\n\n    if (a ===
b) {\n        if (a !== 0) return 0;\n\n        var ia = 1 / a;\n        return ia === 1 / b ? 0 : (ia < 0
? -1 : 1);\n    }\n\n    return a !== a ? (b !== b ? 0 : 1) : -1;\n};\n\nKotlin.charInc = function (value) {\n    return
Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n    return Kotlin.toChar(value-
1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n    return ((a &
0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function() {\n    var buf = new ArrayBuffer(8);\n    var
bufFloat64 = new Float64Array(buf);\n    var bufFloat32 = new Float32Array(buf);\n    var bufInt32 = new
Int32Array(buf);\n    var lowIndex = 0;\n    var highIndex = 1;\n\n    bufFloat64[0] = -1; // bff00000_00000000\n    if
(bufInt32[lowIndex] !== 0) {\n        lowIndex = 1;\n        highIndex = 0;\n    }\n\n    Kotlin.doubleToBits =
function(value) {\n        return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n    };
\n}\n\nKotlin.doubleToRawBits = function(value) {\n    bufFloat64[0] = value;\n    return

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Kotlin.Long.fromBits(bufInt32[lowIndex],
bufInt32[highIndex]);\n };\n\n Kotlin.doubleFromBits = function(value) {\n    bufInt32[lowIndex] =
value.low_;\n    bufInt32[highIndex] = value.high_;\n    return bufFloat64[0];\n };\n\n Kotlin.floatToBits =
function(value) {\n    return Kotlin.floatToRawBits(isNaN(value) ? NaN : value);\n };\n\n
Kotlin.floatToRawBits = function(value) {\n    bufFloat32[0] = value;\n    return bufInt32[0];\n };\n\n
Kotlin.floatFromBits = function(value) {\n    bufInt32[0] = value;\n    return bufFloat32[0];\n };\n\n //
returns zero value for number with positive sign bit and non-zero value for number with negative sign bit.\n
Kotlin.doubleSignBit = function(value) {\n    bufFloat64[0] = value;\n    return bufInt32[highIndex] &
0x80000000;\n };\n\n Kotlin.numberHashCode = function(obj) {\n    if ((obj | 0) === obj) {\n        return
obj | 0;\n    } else {\n        bufFloat64[0]
= obj;\n        return (bufInt32[highIndex] * 31 | 0) + bufInt32[lowIndex] | 0;\n    }\n
}()\n\nKotlin.ensureNotNull = function(x) {\n    return x != null ? x : Kotlin.throwNPE();\n };\n\n", /*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nif (typeof
String.prototype.startsWith === "undefined") {\n    Object.defineProperty(String.prototype, "startsWith", {\n
value: function (searchString, position) {\n        position = position || 0;\n        return
this.lastIndexOf(searchString, position) === position;\n    }\n });\n\nif (typeof String.prototype.endsWith ===
"undefined") {\n    Object.defineProperty(String.prototype, "endsWith", {\n        value: function (searchString,
position) {\n            var subjectString = this.toString();\n            if (position === undefined
|| position > subjectString.length) {\n                position = subjectString.length;\n            }\n            position -=
searchString.length;\n            var lastIndex = subjectString.indexOf(searchString, position);\n            return lastIndex
!== -1 && lastIndex === position;\n        }\n });\n\n}\n\n// ES6 Math polyfills\n\nif (typeof Math.sign ===
"undefined") {\n    Math.sign = function(x) {\n        x = +x; // convert to a number\n        if (x === 0 || isNaN(x))
{\n            return Number(x);\n        }\n        return x > 0 ? 1 : -1;\n    };\n\n}\n\nif (typeof Math.trunc ===
"undefined") {\n    Math.trunc = function(x) {\n        if (isNaN(x)) {\n            return NaN;\n        }\n        if (x > 0) {\n
return Math.floor(x);\n        }\n        return Math.ceil(x);\n    };\n\n}\n\n(function() {\n    var epsilon =
2.220446049250313E-16;\n    var taylor_2_bound = Math.sqrt(epsilon);\n    var taylor_n_bound =
Math.sqrt(taylor_2_bound);\n    var upper_taylor_2_bound
= 1/taylor_2_bound;\n    var upper_taylor_n_bound = 1/taylor_n_bound;\n\n    if (typeof Math.sinh ===
"undefined") {\n        Math.sinh = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var result
= x;\n                if (Math.abs(x) > taylor_2_bound) {\n                    result += (x * x * x) / 6;\n                }\n
return result;\n            } else {\n                var y = Math.exp(x);\n                var y1 = 1 / y;\n                if (!isFinite(y))
return Math.exp(x - Math.LN2);\n                if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n                return (y
- y1) / 2;\n            }\n        };\n    }\n\n    if (typeof Math.cosh === "undefined") {\n        Math.cosh = function(x) {\n
var y = Math.exp(x);\n        var y1 = 1 / y;\n        if (!isFinite(y) || !isFinite(y1)) return
Math.exp(Math.abs(x) - Math.LN2);\n        return (y + y1) / 2;\n    };\n\n}\n\n    if (typeof Math.tanh
=== "undefined") {\n        Math.tanh = function(x){\n            if (Math.abs(x) < taylor_n_bound) {\n                var
result = x;\n                if (Math.abs(x) > taylor_2_bound) {\n                    result -= (x * x * x) / 3;\n                }\n
return result;\n            }\n            else {\n                var a = Math.exp(+x), b = Math.exp(-x);\n                return a
=== Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n            }\n        };\n    }\n\n}\n\n    // Inverse hyperbolic function
implementations derived from boost special math functions,\n    // Copyright Eric Ford & Hubert Holin 2001.\n\nif (typeof Math.asinh === "undefined") {\n    var asinh = function(x) {\n        if (x >= +taylor_n_bound)\n        {\n            if (x > upper_taylor_n_bound)\n                {\n                    if (x > upper_taylor_2_bound)\n                }\n            }\n        }\n        // approximation by laurent series in 1/x
at 0+ order from -1 to 0\n        return Math.log(x) + Math.LN2;\n    }\n    }\n    else\n    {\n        // approximation by laurent series in 1/x at 0+ order from -1 to 1\n        return
Math.log(x * 2 + (1 / (x * 2)));\n    }\n    }\n    else\n    {\n        return
Math.log(x + Math.sqrt(x * x + 1));\n    }\n    }\n    else if (x <= -taylor_n_bound)\n    {\n

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    return -asinh(-x);\n        }\n        else\n            {\n                // approximation by taylor series in x at 0 up to
order 2\n                var result = x;\n                if (Math.abs(x) >= taylor_2_bound)\n                    {\n                        var x3 =
x * x * x;\n                        // approximation by taylor series in x at 0 up to order 4\n                        result -= x3 / 6;\n                    }\n                }\n                return result;\n            }\n        });\n        Math.asinh = asinh;\n    }\n    if (typeof Math.acosh === \"undefined\")\n    {\n        Math.acosh = function(x) {\n            if (x < 1)\n                {\n                    return NaN;\n                }\n            else if
(x - 1 >= taylor_n_bound)\n                {\n                    if (x > upper_taylor_2_bound)\n                        {\n                            //
approximation by laurent series in 1/x at 0+ order from -1 to 0\n                            return Math.log(x) + Math.LN2;\n                        }\n                    }\n                }\n            else\n                {\n                    return Math.log(x + Math.sqrt(x * x - 1));\n                }\n            }\n        }\n        else\n            {\n                var y = Math.sqrt(x - 1);\n                // approximation by taylor series in y at 0 up to
order 2\n                var result = y;\n                if (y >= taylor_2_bound)\n                    {\n                        var y3 = y * y *
y;\n                        // approximation
by taylor series in y at 0 up to order 4\n                        result -= y3 / 12;\n                    }\n                }\n                return Math.sqrt(2)
* result;\n            }\n        });\n    }\n    if (typeof Math.atanh === \"undefined\") {\n        Math.atanh = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var result = x;\n                if (Math.abs(x) > taylor_2_bound)
{\n                    result += (x * x * x) / 3;\n                }\n                return result;\n            }\n            return Math.log((1
+ x) / (1 - x)) / 2;\n        });\n    }\n    if (typeof Math.log1p === \"undefined\") {\n        Math.log1p = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var x2 = x * x;\n                var x3 = x2 * x;\n                var x4 =
x3 * x;\n                // approximation by taylor series in x at 0 up to order 4\n                return (-x4 / 4 + x3 / 3 - x2 / 2
+ x);\n            }\n            return Math.log(x
+ 1);\n        });\n    }\n    if (typeof Math.expm1 === \"undefined\") {\n        Math.expm1 = function(x) {\n            if
(Math.abs(x) < taylor_n_bound) {\n                var x2 = x * x;\n                var x3 = x2 * x;\n                var x4 = x3 *
x;\n                // approximation by taylor series in x at 0 up to order 4\n                return (x4 / 24 + x3 / 6 + x2 / 2 +
x);\n            }\n            return Math.exp(x) - 1;\n        });\n    }\n    if (typeof Math.hypot === \"undefined\") {\n        Math.hypot = function() {\n            var y = 0;\n            var length = arguments.length;\n            for (var i = 0; i < length;
i++) {\n                if (arguments[i] === Infinity || arguments[i] === -Infinity) {\n                    return Infinity;\n                }\n                y += arguments[i] * arguments[i];\n            }\n            return Math.sqrt(y);\n        });\n    }\n    if (typeof Math.log10 ===
\"undefined\") {\n        Math.log10 = function(x) {\n            return Math.log(x) * Math.LOG10E;\n        });\n    }\n    if (typeof Math.log2 === \"undefined\") {\n        Math.log2 = function(x) {\n            return Math.log(x) *
Math.LOG2E;\n        });\n    }\n    if (typeof Math.clz32 === \"undefined\") {\n        Math.clz32 = (function(log, LN2) {\n            return function(x) {\n                var asUInt = x >>> 0;\n                if (asUInt === 0) {\n                    return 32;\n                }\n                return 31 - (log(asUInt) / LN2 | 0) | 0; // the \"| 0\" acts like math.floor\n            }; \n        })(Math.log,
Math.LN2);\n    }\n    // For HtmlUnit and PhantomJs\n    if (typeof ArrayBuffer.isView === \"undefined\") {\n        ArrayBuffer.isView = function(a) {\n            return a != null && a.__proto__ != null && a.__proto__.__proto__ ===
Int8Array.prototype.__proto__;\n        });\n    }\n    if (typeof Array.prototype.fill === \"undefined\") {\n        // Polyfill from
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n        Object.defineProperty(Array.prototype, 'fill', {\n            value: function (value)
{\n                // Steps 1-2.\n                if (this == null) {\n                    throw new TypeError('this is null or not defined');\n                }\n                var O = Object(this);\n                // Steps 3-5.\n                var len = O.length >>> 0;\n                // Steps
6-7.\n                var start = arguments[1];\n                var relativeStart = start >> 0;\n                // Step 8.\n                var k =
relativeStart < 0 ?\n                    Math.max(len + relativeStart, 0) :\n                    Math.min(relativeStart, len);\n                // Steps 9-10.\n                var end = arguments[2];\n                var relativeEnd = end === undefined ?\n                    len : end >> 0;\n                // Step 11.\n                var finalValue = relativeEnd < 0 ?\n                    Math.max(len +
relativeEnd, 0) :\n                    Math.min(relativeEnd, len);\n                // Step 12.\n                while (k <
finalValue) {\n                    O[k] = value;\n                    k++;\n                }\n                // Step 13.\n                return O;\n            }; \n        });\n    }\n    function\n    normalizeOffset(offset, length) {\n        if (offset < 0) return Math.max(0, offset + length);\n        return
Math.min(offset, length);\n    }\n    function typedArraySlice(begin, end) {\n        if (typeof end === \"undefined\")

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    end = this.length;\n    } \n    begin = normalizeOffset(begin || 0, this.length);\n    end =
Math.max(begin, normalizeOffset(end, this.length));\n    return new this.constructor(this.subarray(begin, end));\n
}\n\n var arrays = [Int8Array, Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];\n for (var i =
0; i < arrays.length; ++i) {\n    var TypedArray = arrays[i];\n    if (typeof TypedArray.prototype.fill ===
\'undefined\') {\n        Object.defineProperty(TypedArray.prototype, \'fill\', {\n            value:
Array.prototype.fill\n        });\n
    }\n    if (typeof TypedArray.prototype.slice === \'undefined\') {\n
Object.defineProperty(TypedArray.prototype, \'slice\', {\n            value: typedArraySlice\n        });\n    }\n
}\n\n // Patch apply to work with TypedArrays if needed.\n try {\n    (function() {} ).apply(null, new
Int32Array(0))\n } catch (e) {\n    var apply = Function.prototype.apply;\n
Object.defineProperty(Function.prototype, \'apply\', {\n        value: function(self, array) {\n            return
apply.call(this, self, [].slice.call(array));\n        }\n    });\n }\n\n // Patch map to work with TypedArrays if
needed.\n for (var i = 0; i < arrays.length; ++i) {\n    var TypedArray = arrays[i];\n    if (typeof
TypedArray.prototype.map === \'undefined\') {\n        Object.defineProperty(TypedArray.prototype, \'map\', {\n
            value: function(callback, self) {\n                return [].slice.call(this).map(callback,
self);\n            }\n        });\n    }\n }\n\n // Patch sort to work with TypedArrays if needed.\n // TODO:
consider to remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\n var
totalOrderComparator = function (a, b) {\n    if (a < b) return -1;\n    if (a > b) return 1;\n\n    if (a === b) {\n
        if (a !== 0) return 0;\n        var ia = 1 / a;\n        return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n    }\n
return a !== a ? (b !== b ? 0 : 1) : -1\n }; \n\n for (var i = 0; i < arrays.length; ++i) {\n    var TypedArray =
arrays[i];\n    if (typeof TypedArray.prototype.sort === \'undefined\') {\n
Object.defineProperty(TypedArray.prototype, \'sort\', {\n        value: function(compareFunction) {\n
return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n        }\n    });\n }\n
}\n\n});\n\n", /*\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source
code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n */\n\nKotlin.Kind =
{\n    CLASS: \'class\',\n    INTERFACE: \'interface\',\n    OBJECT: \'object\'\n};\n\nKotlin.callGetter = function
(thisObject, klass, propertyName) {\n    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass,
propertyName);\n    if (propertyDescriptor != null && propertyDescriptor.get != null) {\n        return
propertyDescriptor.get.call(thisObject);\n    }\n\n    propertyDescriptor =
Object.getOwnPropertyDescriptor(thisObject, propertyName);\n    if (propertyDescriptor != null && \'value\' in
propertyDescriptor) {\n        return thisObject[propertyName];\n    }\n\n    return Kotlin.callGetter(thisObject,
Object.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter = function (thisObject, klass, propertyName,
value) {\n    var propertyDescriptor
= Object.getOwnPropertyDescriptor(klass, propertyName);\n    if (propertyDescriptor != null &&
propertyDescriptor.set != null) {\n        propertyDescriptor.set.call(thisObject, value);\n        return;\n    }\n
propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n    if (propertyDescriptor !=
null && \'value\' in propertyDescriptor) {\n        thisObject[propertyName] = value;\n        return\n    }\n
Kotlin.callSetter(thisObject, Object.getPrototypeOf(klass), propertyName, value);\n};\n\nfunction
isInheritanceFromInterface(ctor, iface) {\n    if (ctor === iface) return true;\n\n    var metadata = ctor.$metadata$;\n
if (metadata != null) {\n        var interfaces = metadata.interfaces;\n        for (var i = 0; i < interfaces.length; i++) {\n
            if (isInheritanceFromInterface(interfaces[i], iface)) {\n                return true;\n            }\n
        }\n    }\n\n    var
superPrototype = ctor.prototype != null ? Object.getPrototypeOf(ctor.prototype)
: null;\n    var superConstructor = superPrototype != null ? superPrototype.constructor : null;\n    return
superConstructor != null && isInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n * \n * @param {*}
object\n * @param {Function|Object} klass\n * @returns {Boolean}\n */\n\nKotlin.isType = function (object, klass)
{\n    if (klass === Object) {\n        switch (typeof object) {\n            case \'string\':\n                case
\'number\':\n                case \'boolean\':\n                case \'function\':\n                    return true;\n
            default:\n                return object

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instanceof Object;\n    }\n }\n\n if (object == null || class == null || (typeof object !== 'object' && typeof
object !== 'function')) {\n    return false;\n }\n\n if (typeof class === \"function\" && object instanceof class)
{\n    return true;\n }\n\n var proto = Object.getPrototypeOf(class);\n var constructor = proto != null ?
proto.constructor
: null;\n if (constructor != null && \"$metadata$\" in constructor) {\n    var metadata =
constructor.$metadata$;\n    if (metadata.kind === Kotlin.Kind.OBJECT) {\n        return object === class;\n
}\n }\n\n var classMetadata = class.$metadata$;\n\n // In WebKit (JavaScriptCore) for some interfaces from
DOM typeof returns \"object\", nevertheless they can be used in RHS of instanceof\n if (classMetadata == null)
{\n    return object instanceof class;\n }\n\n if (classMetadata.kind === Kotlin.Kind.INTERFACE &&
object.constructor != null) {\n    return isInheritanceFromInterface(object.constructor, class);\n }\n\n return
false;\n};\n\nKotlin.isNumber = function (a) {\n    return typeof a === \"number\" || a instanceof
Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n    return value instanceof
Kotlin.BoxedChar;\n};\n\nKotlin.isComparable = function (value) {\n    var type = typeof value;\n\n    return type
=== \"string\"
||\n        type === \"boolean\" ||\n        Kotlin.isNumber(value) ||\n        Kotlin.isType(value,
Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n    return typeof value === \"string\"
|| Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};\n\n\"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *^\n\n// a package is omitted to get declarations directly under the
module\n\n@PublishedApi\nexternal fun <T> Array(size: Int): Array<T>\n\n@JsName(\"newArray\")\nfun
<T> newArray(size: Int, initValue: T) = fillArrayVal(Array<T>(size),
initValue)\n\n@JsName(\"newArrayF\")\ninline fun <T> arrayWithFun(size: Int, init: (Int) -> T) =
fillArrayFun(Array<T>(size), init)\n\n@JsName(\"fillArray\")\ninline fun <T> fillArrayFun(array: Array<T>, init:
(Int) -> T): Array<T> {\n    for (i in 0..array.size
- 1) {\n        array[i] = init(i)\n    }\n    return array\n}\n\n@JsName(\"booleanArray\")\nfun booleanArray(size: Int,
init: dynamic): Array<Boolean> {\n    val result: dynamic = Array<Boolean>(size)\n    result.`$type$` =
\"BooleanArray\"\n    return when (init) {\n        null, true -> fillArrayVal(result, false)\n        false -> result\n
else -> fillArrayFun<Boolean>(result, init)\n    }\n}\n\n@JsName(\"booleanArrayF\")\ninline fun
booleanArrayWithFun(size: Int, init: (Int) -> Boolean): Array<Boolean> = fillArrayFun(booleanArray(size, false),
init)\n\n@JsName(\"charArray\")\n@Suppress(\"UNUSED_PARAMETER\")\nfun charArray(size: Int, init:
dynamic): Array<Char> {\n    val result = js(\"new Uint16Array(size)\")\n    result.`$type$` = \"CharArray\"\n    return
when (init) {\n        null, true, false -> result // For consistency\n        else -> fillArrayFun<Char>(result,
init)\n    }\n}\n\n@JsName(\"charArrayF\")\ninline fun charArrayWithFun(size: Int, init: (Int)
-> Char): Array<Char> {\n    val array = charArray(size, null)\n    for (i in 0..array.size - 1) {\n
@Suppress(\"UNUSED_VARIABLE\") // used in js block\n        val value = init(i)\n        js(\"array[i] = value;\")\n
}\n    return array\n}\n\n@JsName(\"untypedCharArrayF\")\ninline fun untypedCharArrayWithFun(size: Int, init:
(Int) -> Char): Array<Char> {\n    val array = Array<Char>(size)\n    for (i in 0..array.size - 1) {\n
@Suppress(\"UNUSED_VARIABLE\") // used in js block\n        val value = init(i)\n        js(\"array[i] = value;\")\n
}\n    return array\n}\n\n@JsName(\"longArray\")\nfun longArray(size: Int, init: dynamic): Array<Long> {\n    val
result: dynamic = Array<Long>(size)\n    result.`$type$` = \"LongArray\"\n    return when (init) {\n        null, true ->
fillArrayVal(result, 0L)\n        false -> result\n        else -> fillArrayFun<Long>(result, init)\n
}\n}\n\n@JsName(\"longArrayF\")\ninline fun longArrayWithFun(size: Int, init: (Int) -> Long):
Array<Long> = fillArrayFun(longArray(size, false), init)\n\nprivate fun <T> fillArrayVal(array: Array<T>,
initValue: T): Array<T> {\n    for (i in 0..array.size - 1) {\n        array[i] = initValue\n    }\n    return array\n}\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *^\n\npackage
kotlin\n\npublic class Enum<T : Enum<T>> : Comparable<Enum<T>> {\n    @JsName(\"name$\") private var
_name: String = \"\"\n    @JsName(\"ordinal$\") private var _ordinal: Int = 0\n\n    val name: String\n    get() =

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_name\n\n val ordinal: Int\n    get() = _ordinal\n\n    override fun compareTo(other: Enum<T>) =
ordinal.compareTo(other.ordinal)\n\n    override fun equals(other: Any?) = this === other\n\n    override fun
hashCode(): Int = js(\"Kotlin.identityHashCode\")\n\n    override fun toString() = name\n\n    companion
object\n}\",\"/*\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.js.internal\n\n@JsName(\"DoubleCompanionObject\")\n\ninternal object DoubleCompanionObject {\n
@JsName(\"MIN_VALUE\")\n    const val MIN_VALUE: Double = 4.9E-324\n\n
@JsName(\"MAX_VALUE\")\n    const val MAX_VALUE: Double = 1.7976931348623157E308\n\n
@JsName(\"POSITIVE_INFINITY\")\n    @Suppress(\"DIVISION_BY_ZERO\")\n    const val
POSITIVE_INFINITY: Double = 1.0 / 0.0\n\n
@JsName(\"NEGATIVE_INFINITY\")\n
@Suppress(\"DIVISION_BY_ZERO\")\n    const val NEGATIVE_INFINITY: Double = -1.0 / 0.0\n\n
@JsName(\"NaN\")\n    @Suppress(\"DIVISION_BY_ZERO\")\n    const val NaN: Double = -(0.0 / 0.0)\n\n
@JsName(\"SIZE_BYTES\")\n    const val SIZE_BYTES = 8\n\n
@JsName(\"SIZE_BITS\")\n    const val
SIZE_BITS = 64\n\n\n@JsName(\"FloatCompanionObject\")\n\ninternal
object FloatCompanionObject {\n
@JsName(\"MIN_VALUE\")\n    const val MIN_VALUE: Float = 1.4E-
45F\n\n
@JsName(\"MAX_VALUE\")\n    const val MAX_VALUE: Float = 3.4028235E38F\n\n
@JsName(\"POSITIVE_INFINITY\")\n    @Suppress(\"DIVISION_BY_ZERO\")\n    const val
POSITIVE_INFINITY: Float = 1.0F / 0.0F\n\n
@JsName(\"NEGATIVE_INFINITY\")\n
@Suppress(\"DIVISION_BY_ZERO\")\n    const val NEGATIVE_INFINITY: Float = -1.0F / 0.0F\n\n
@JsName(\"NaN\")\n    @Suppress(\"DIVISION_BY_ZERO\")\n    const val NaN: Float = -(0.0F / 0.0F)\n\n
@JsName(\"SIZE_BYTES\")\n    const val SIZE_BYTES = 4\n\n
@JsName(\"SIZE_BITS\")\n    const val
SIZE_BITS = 32\n\n\n@JsName(\"IntCompanionObject\")\n\ninternal object IntCompanionObject {\n
@JsName(\"MIN_VALUE\")\n    val MIN_VALUE: Int = -2147483647 - 1\n\n
@JsName(\"MAX_VALUE\")\n
val MAX_VALUE: Int = 2147483647\n\n
@JsName(\"SIZE_BYTES\")\n    const val SIZE_BYTES = 4\n\n
@JsName(\"SIZE_BITS\")\n    const
val SIZE_BITS = 32\n\n\n@JsName(\"LongCompanionObject\")\n\ninternal object LongCompanionObject {\n
@JsName(\"MIN_VALUE\")\n    val MIN_VALUE: Long = js(\"Kotlin.Long.MIN_VALUE\")\n\n
@JsName(\"MAX_VALUE\")\n    val MAX_VALUE: Long = js(\"Kotlin.Long.MAX_VALUE\")\n\n
@JsName(\"SIZE_BYTES\")\n    const val SIZE_BYTES = 8\n\n
@JsName(\"SIZE_BITS\")\n    const val
SIZE_BITS = 64\n\n\n@JsName(\"ShortCompanionObject\")\n\ninternal object ShortCompanionObject {\n
@JsName(\"MIN_VALUE\")\n    val MIN_VALUE: Short = -32768\n\n
@JsName(\"MAX_VALUE\")\n    val
MAX_VALUE: Short = 32767\n\n
@JsName(\"SIZE_BYTES\")\n    const val SIZE_BYTES = 2\n\n
@JsName(\"SIZE_BITS\")\n    const val SIZE_BITS = 16\n\n\n@JsName(\"ByteCompanionObject\")\n\ninternal
object ByteCompanionObject {\n
@JsName(\"MIN_VALUE\")\n    val MIN_VALUE: Byte = -128\n\n
@JsName(\"MAX_VALUE\")\n    val MAX_VALUE: Byte = 127\n\n
@JsName(\"SIZE_BYTES\")\n    const val
SIZE_BYTES = 1\n\n
@JsName(\"SIZE_BITS\")\n
const val SIZE_BITS = 8\n\n\n@JsName(\"CharCompanionObject\")\n\ninternal object CharCompanionObject
{\n
@JsName(\"MIN_VALUE\")\n    public const val MIN_VALUE: Char = \"\u0000\"\n\n
@JsName(\"MAX_VALUE\")\n    public const val MAX_VALUE: Char = \"\uFFFF\"\n\n
@JsName(\"MIN_HIGH_SURROGATE\")\n    public const val MIN_HIGH_SURROGATE: Char = \"\uD800\"\n\n
@JsName(\"MAX_HIGH_SURROGATE\")\n    public const val MAX_HIGH_SURROGATE: Char =
\"uDBFF\"\n\n
@JsName(\"MIN_LOW_SURROGATE\")\n    public const val MIN_LOW_SURROGATE: Char =
\"uDC00\"\n\n
@JsName(\"MAX_LOW_SURROGATE\")\n    public const val MAX_LOW_SURROGATE: Char =
\"uDFFF\"\n\n
@JsName(\"MIN_SURROGATE\")\n    public const val MIN_SURROGATE: Char =
MIN_HIGH_SURROGATE\n\n
@JsName(\"MAX_SURROGATE\")\n    public const val MAX_SURROGATE:
Char = MAX_LOW_SURROGATE\n\n
@JsName(\"SIZE_BYTES\")\n    const val SIZE_BYTES = 2\n\n
@JsName(\"SIZE_BITS\")\n    const val SIZE_BITS = 16\n\n\ninternal object

```

StringCompanionObject {} \n\ninternal object BooleanCompanionObject {} \n\n"/\n \* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

\*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt")\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.\*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n return get(0)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2():



`Long` {`n` `return` `get(1)`}`n`}`n`/`**``n` \* Returns 2nd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `FloatArray.component2()`: `Float` {`n` `return` `get(1)`}`n`}`n`/`**``n` \* Returns 2nd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `DoubleArray.component2()`: `Double` {`n` `return` `get(1)`}`n`}`n`/`**``n` \* Returns 2nd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `BooleanArray.component2()`: `Boolean` {`n` `return` `get(1)`}`n`}`n`/`**``n` \* Returns 2nd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `CharArray.component2()`: `Char` {`n` `return` `get(1)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `<T> Array<out T>.component3()`: `T` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `ByteArray.component3()`: `Byte` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `ShortArray.component3()`: `Short` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `IntArray.component3()`: `Int` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `LongArray.component3()`: `Long` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `FloatArray.component3()`: `Float` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `DoubleArray.component3()`: `Double` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `BooleanArray.component3()`: `Boolean` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 3rd \*element\* from the array.`n` \* `n` \* If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `CharArray.component3()`: `Char` {`n` `return` `get(2)`}`n`}`n`/`**``n` \* Returns 4th \*element\* from the array.`n` \* `n` \* If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `<T> Array<out T>.component4()`: `T` {`n` `return` `get(3)`}`n`}`n`/`**``n` \* Returns 4th \*element\* from the array.`n` \* `n` \* If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun `ByteArray.component4()`: `Byte` {`n` `return` `get(3)`}`n`}`n`/`**``n` \* Returns 4th \*element\* from the array.`n` \* `n` \* If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS`n` \* where the behavior is unspecified.`n`

`*``n`@kotlin.internal.InlineOnly`n`public inline operator fun

ShortArray.component4(): Short { \n return get(3)\n}\n\n/\*\* \n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int { \n return get(3)\n}\n\n/\*\* \n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long { \n return get(3)\n}\n\n/\*\* \n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float { \n return get(3)\n}\n\n/\*\* \n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double { \n return get(3)\n}\n\n/\*\* \n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean { \n return get(3)\n}\n\n/\*\* \n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char { \n return get(3)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char { \n return get(4)\n}\n\n/\*\* \n \* Returns `true` if [element] is found in the array.\n \*/\n@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean { \n return indexOf(element)

`>= 0` Returns `true` if [element] is found in the array.

`ByteArray.contains(element: Byte): Boolean` Returns `true` if [element] is found in the array.

`ShortArray.contains(element: Short): Boolean` Returns `true` if [element] is found in the array.

`IntArray.contains(element: Int): Boolean` Returns `true` if [element] is found in the array.

`LongArray.contains(element: Long): Boolean` Returns `true` if [element] is found in the array.

`@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search behavior as in a list.")`

`FloatArray.contains(element: Float): Boolean` Returns `true` if [element] is found in the array.

`@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search behavior as in a list.")`

`DoubleArray.contains(element: Double): Boolean` Returns `true` if [element] is found in the array.

`BooleanArray.contains(element: Boolean): Boolean` Returns `true` if [element] is found in the array.

`CharArray.contains(element: Char): Boolean` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): T` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): Byte` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): Short` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): Int` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): Long` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): Float` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): Double` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): Boolean` Returns an element at the given [index] or throws an `IndexOutOfBoundsException` if the [index] is out of bounds of this array.

`elementAt(index: Int): Char` Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

`elementAtOrElse(index: Int, defaultValue: () T): T` Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.

```

<T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    return if (index >= 0 && index <=
lastIndex)
    get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling
the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Float): Float {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrElse(index:
Int, defaultValue: (Int) -> Boolean): Boolean {
    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.elementAtOrNull(index: Int): T? {
    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out
of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {
    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrNull(index: Int): Short? {
    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n

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*^@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrNull(index: Int): Int? {\n  return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrNull(index: Int): Long? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrNull(index: Int): Float? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrNull(index: Int): Double? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*^@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {\n
return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of
bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*^@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrNull(index: Int): Char? {\n  return
this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n  return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.find(predicate: (Short) -> Boolean): Short? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^@kotlin.internal.InlineOnly\npublic inline fun
IntArray.find(predicate: (Int) -> Boolean): Int? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^@kotlin.internal.InlineOnly\npublic inline fun
LongArray.find(predicate:
(Long) -> Boolean): Long? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the
given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.find(predicate: (Float) -> Boolean): Float? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n  return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^@kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n  return
firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

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*@\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*@\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n
return lastOrNull(predicate)\n}\n\n/**\n
 * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*@\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*@\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*@\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the
given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*@\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*@\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n
return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*@\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n
return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null`
if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*@\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n * \n\npublic fun <T> Array<out T>.first(): T {\n
if (isEmpty())\n
throw
NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n * \n\npublic fun ByteArray.first(): Byte {\n
if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns first element.\n *
@throws [NoSuchElementException] if the array is empty.\n * \n\npublic fun ShortArray.first(): Short {\n
if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns first
element.\n
 * @throws [NoSuchElementException] if the array is empty.\n * \n\npublic fun IntArray.first(): Int {\n
if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns first
element.\n * @throws [NoSuchElementException] if the array is empty.\n * \n\npublic fun LongArray.first(): Long
{\n
if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n * \n\npublic fun
FloatArray.first(): Float {\n
if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n
return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n *
\n\npublic fun DoubleArray.first(): Double {\n
if (isEmpty())\n
throw NoSuchElementException("Array is
empty.")\n
return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if
the array is empty.\n * \n\npublic fun BooleanArray.first(): Boolean {\n
if (isEmpty())\n
throw
NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n * \n\npublic fun CharArray.first(): Char {\n
if (isEmpty())\n
throw NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns the first element

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matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic
inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {\n    for (element in this) if (predicate(element))
return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) ->
Boolean): Byte {\n
    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains
no element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n *
@throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate:
(Short) -> Boolean): Short {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n    for (element in this) if (predicate(element))
return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException]
if no such element is found.\n */\npublic inline fun LongArray.first(predicate: (Long) -> Boolean): Long {\n    for
(element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Array contains no
element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n *
@throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun FloatArray.first(predicate:
(Float) -> Boolean): Float {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun BooleanArray.first(predicate:
(Boolean) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return element\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun CharArray.first(predicate: (Char) -> Boolean): Char {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to
elements of this array in iteration order,\n * or throws [NoSuchElementException] if no non-null value was
produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOf(transform: (T) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the array was transformed to a non-null value.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to elements of this array in iteration order,\n
* or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n    for (element in this) {\n        val result =
transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n *
Returns the first element, or `null` if the array is empty.\n
*/\n\npublic fun <T> Array<out T>.firstOrNull(): T? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns
the first element, or `null` if the array is empty.\n */\n\npublic fun ByteArray.firstOrNull(): Byte? {\n    return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n\npublic fun

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ShortArray.firstOrNull(): Short? {\n  return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element,
or `null` if the array is empty.\n */\npublic fun IntArray.firstOrNull(): Int? {\n  return if (isEmpty()) null else
this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun
LongArray.firstOrNull(): Long? {\n  return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element,
or `null` if the array is empty.\n */\npublic fun FloatArray.firstOrNull(): Float? {\n  return if (isEmpty()) null else
this[0]\n}\n\n/**\n * Returns the first element, or `null`
if the array is empty.\n */\npublic fun DoubleArray.firstOrNull(): Double? {\n  return if (isEmpty()) null else
this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun
BooleanArray.firstOrNull(): Boolean? {\n  return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n */\npublic fun CharArray.firstOrNull(): Char? {\n  return if (isEmpty())
null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not
found.\n */\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n  for (element in
this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) ->
Boolean): Byte? {\n  for (element in this) if (predicate(element)) return element\n
return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not
found.\n */\npublic inline fun ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n  for (element in
this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) ->
Boolean): Int? {\n  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n  for (element in this) if (predicate(element))
return element\n  return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun FloatArray.firstOrNull(predicate:
(Float) -> Boolean): Float? {\n  for (element in this) if (predicate(element)) return element\n  return
null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n
*/\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n  for (element in this)
if (predicate(element)) return element\n  return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate:
(Boolean) -> Boolean): Boolean? {\n  for (element in this) if (predicate(element)) return element\n  return
null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n
*/\npublic inline fun CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n  for (element in this) if
(predicate(element)) return element\n  return null\n}\n\n/**\n * Returns an element
at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrNull(index: Int, defaultValue: (Int) ->
T): T? {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrNull(index: Int, defaultValue: (Int) -
> Byte): Byte? {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrNull(index: Int,
defaultValue: (Int) -> Short): Short? {\n  return if (index >= 0
&& index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index]
or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrNull(index: Int, defaultValue: (Int) -> Int): Int? {\n
return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element
at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrNull(index: Int, defaultValue: (Int) -> Long):

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Long { \n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float { \n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double { \n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean { \n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char { \n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun <T> Array<out T>.getOrNull(index: Int): T? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun ByteArray.getOrNull(index: Int): Byte? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun ShortArray.getOrNull(index: Int): Short? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun IntArray.getOrNull(index: Int): Int? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun LongArray.getOrNull(index: Int): Long? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun FloatArray.getOrNull(index: Int): Float? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun DoubleArray.getOrNull(index: Int): Double? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun CharArray.getOrNull(index: Int): Char? { \n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int { \n    if (element == null) { \n        for (index in indices) { \n            if (this[index] == null) { \n                return index\n            } \n        } \n    } else { \n        for (index in indices) { \n            if (element == this[index]) { \n                return index\n            } \n        } \n    } \n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n */\npublic fun ByteArray.indexOf(element: Byte): Int { \n    for (index in indices) { \n        if (element ==

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this[index]) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if
the array does not contain element.\n */\npublic fun ShortArray.indexOf(element: Short): Int {\n    for (index in
indices)\n        if (element == this[index]) {\n            return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int
{\n    for (index in indices)\n        if (element == this[index]) {\n            return index\n        }\n        }\n    return
-1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun
LongArray.indexOf(element: Long): Int {\n    for (index in indices)\n        if (element == this[index]) {\n           
return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\n@Deprecated("The function has unclear behavior when searching for NaN or zero values
and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or
'.asList().indexOf(element: T)' to get the same
search behavior as in a list.", ReplaceWith("indexOfFirst { it == element
}"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\npublic fun
FloatArray.indexOf(element: Float): Int {\n    for (index in indices)\n        if (element == this[index]) {\n           
return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\n@Deprecated("The function has unclear behavior when searching for NaN or zero values
and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or
'.asList().indexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("indexOfFirst { it ==
element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\npublic fun
DoubleArray.indexOf(element: Double): Int {\n    for (index in indices)\n        if (element == this[index]) {\n           
return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n    for (index in indices)\n        if
(element == this[index]) {\n            return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n    for (index in indices)\n        if
(element == this[index]) {\n            return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T>
Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    for (index in indices)\n        if
(predicate(this[index])) {\n            return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate],
or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfFirst(predicate: (Byte) ->
Boolean): Int {\n    for (index in indices)\n        if (predicate(this[index])) {\n            return index\n        }\n        }\n
return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not
contain such element.\n */\npublic inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n    for
(index in indices)\n        if (predicate(this[index])) {\n            return index\n        }\n        }\n    return -1\n}\n\n/**\n *
Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n
public inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n    for (index in indices)\n        if
(predicate(this[index])) {\n            return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching
the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n    for (index in indices)\n        if
(predicate(this[index])) {\n            return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n    for (index in indices)\n        if
(predicate(this[index])) {\n            return index\n        }\n        }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n    for (index in indices)\n        if

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(predicate(this[index])) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns
index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n  for (index in indices)
{\n    if (predicate(this[index])) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of
the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n  for (index in indices) {\n    if
(predicate(this[index])) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun <T>
Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n  for (index in indices.reversed()) {\n    if
(predicate(this[index])) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean):
Int {\n  for (index in indices.reversed()) {\n    if (predicate(this[index])) {\n      return index\n    }\n    }\n
return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not
contain such element.\n
*/\npublic inline fun ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n  for
(index in indices.reversed()) {\n    if (predicate(this[index])) {\n      return index\n    }\n    }\n    return -
1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.\n
*/\npublic inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n  for (index in
indices.reversed()) {\n    if
(predicate(this[index])) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n  for (index in indices.reversed()) {\n    if
(predicate(this[index])) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n  for (index in indices.reversed()) {\n    if
(predicate(this[index])) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun DoubleArray.indexOfLast(predicate: (Double) -> Boolean):
Int {\n  for (index in indices.reversed()) {\n    if (predicate(this[index])) {\n      return index\n    }\n    }\n
return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not
contain such element.\n
*/\npublic inline fun BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n  for
(index in indices.reversed()) {\n    if (predicate(this[index])) {\n      return index\n    }\n    }\n    return -
1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.\n
*/\npublic inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n  for (index in
indices.reversed()) {\n    if (predicate(this[index])) {\n      return index\n    }\n    }\n    return -1\n}\n\n/**\n
 * Returns the last element.\n
 * \n * @throws NoSuchElementException if the array is empty.\n
 * \n * @sample
samples.collections.Collections.Elements.last\n
*/\npublic fun <T> Array<out T>.last(): T {\n  if (isEmpty())\n    throw NoSuchElementException("Array is
empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n
 * \n * @throws
NoSuchElementException if the array is empty.\n
 * \n * @sample
samples.collections.Collections.Elements.last\n
*/\npublic fun ByteArray.last(): Byte {\n  if (isEmpty())\n    throw NoSuchElementException("Array is
empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n
 * \n * @throws
NoSuchElementException if the array is empty.\n
 * \n * @sample
samples.collections.Collections.Elements.last\n
*/\npublic fun ShortArray.last(): Short {\n  if (isEmpty())\n    throw NoSuchElementException("Array is
empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n
 * \n * @throws
NoSuchElementException if the array is empty.\n
 * \n * @sample
samples.collections.Collections.Elements.last\n
*/\npublic fun IntArray.last():

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Int {n  if (isEmpty())n    throw NoSuchElementException("Array is empty.")n  return
this[lastIndex]n}n/n/**n * Returns the last element.n * n * @throws NoSuchElementException if the array is
empty.n * n * @sample samples.collections.Collections.Elements.lastn */npublic fun LongArray.last(): Long {n
if (isEmpty())n  throw NoSuchElementException("Array is empty.")n  return this[lastIndex]n}n/n/**n *
Returns the last element.n * n * @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Elements.lastn */npublic fun FloatArray.last(): Float {n  if (isEmpty())n
throw NoSuchElementException("Array is empty.")n  return this[lastIndex]n}n/n/**n * Returns the last
element.n * n * @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Elements.lastn */npublic fun DoubleArray.last(): Double {n  if (isEmpty())n
throw
NoSuchElementException("Array is empty.")n  return this[lastIndex]n}n/n/**n * Returns the last element.n *
n * @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Elements.lastn */npublic fun BooleanArray.last(): Boolean {n  if (isEmpty())n
throw NoSuchElementException("Array is empty.")n  return this[lastIndex]n}n/n/**n * Returns the last
element.n * n * @throws NoSuchElementException if the array is empty.n * n * @sample
samples.collections.Collections.Elements.lastn */npublic fun CharArray.last(): Char {n  if (isEmpty())n
throw NoSuchElementException("Array is empty.")n  return this[lastIndex]n}n/n/**n * Returns the last
element matching the given [predicate].n * n * @throws NoSuchElementException if no such element is found.n
* n * @sample samples.collections.Collections.Elements.lastn */npublic inline fun <T> Array<out
T>.last(predicate: (T) -> Boolean): T {n  for
(index in this.indices.reversed()) {n    val element = this[index]n    if (predicate(element)) return elementn
}n  throw NoSuchElementException("Array contains no element matching the predicate.")n}n/n/**n * Returns
the last element matching the given [predicate].n * n * @throws NoSuchElementException if no such element is
found.n * n * @sample samples.collections.Collections.Elements.lastn */npublic inline fun
ByteArray.last(predicate: (Byte) -> Boolean): Byte {n  for (index in this.indices.reversed()) {n    val element =
this[index]n    if (predicate(element)) return elementn  }n  throw NoSuchElementException("Array contains
no element matching the predicate.")n}n/n/**n * Returns the last element matching the given [predicate].n * n *
@throws NoSuchElementException if no such element is found.n * n * @sample
samples.collections.Collections.Elements.lastn */npublic inline fun ShortArray.last(predicate: (Short) -> Boolean):
Short
{n  for (index in this.indices.reversed()) {n    val element = this[index]n    if (predicate(element)) return
elementn  }n  throw NoSuchElementException("Array contains no element matching the
predicate.")n}n/n/**n * Returns the last element matching the given [predicate].n * n * @throws
NoSuchElementException if no such element is found.n * n * @sample
samples.collections.Collections.Elements.lastn */npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int
{n  for (index in this.indices.reversed()) {n    val element = this[index]n    if (predicate(element)) return
elementn  }n  throw NoSuchElementException("Array contains no element matching the
predicate.")n}n/n/**n * Returns the last element matching the given [predicate].n * n * @throws
NoSuchElementException if no such element is found.n * n * @sample
samples.collections.Collections.Elements.lastn */npublic inline fun LongArray.last(predicate: (Long) -> Boolean):
Long {n  for (index in this.indices.reversed()) {n    val element = this[index]n    if (predicate(element))
return elementn  }n  throw NoSuchElementException("Array contains no element matching the
predicate.")n}n/n/**n * Returns the last element matching the given [predicate].n * n * @throws
NoSuchElementException if no such element is found.n * n * @sample
samples.collections.Collections.Elements.lastn */npublic inline fun FloatArray.last(predicate: (Float) -> Boolean):
Float {n  for (index in this.indices.reversed()) {n    val element = this[index]n    if (predicate(element))
return elementn  }n  throw NoSuchElementException("Array contains no element matching the
predicate.")n}n/n/**n * Returns the last element matching the given [predicate].n * n * @throws

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NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun DoubleArray.last(predicate: (Double)
-> Boolean): Double {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun BooleanArray.last(predicate: (Boolean) ->
Boolean): Boolean {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^\npublic inline fun CharArray.last(predicate:
(Char) -> Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain
element.\n *^\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n if
(element == null) {\n for (index in indices.reversed()) {\n if (this[index] == null) {\n return
index\n }\n }\n } else {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n
return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the
array does not contain element.\n *^\npublic fun ByteArray.lastIndexOf(element: Byte): Int {\n for (index in
indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns last
index of [element], or -1 if the array does not contain element.\n *^\npublic fun ShortArray.lastIndexOf(element:
Short): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n
}\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n
*^\npublic fun IntArray.lastIndexOf(element: Int): Int {\n for (index in indices.reversed()) {\n if (element ==
this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n *^\npublic fun LongArray.lastIndexOf(element: Long): Int {\n for (index in
indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n
* Returns
last index of [element], or -1 if the array does not contain element.\n *^\n@Deprecated("The function has unclear
behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }'
instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a
list.", ReplaceWith("indexOfLast { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.6")\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n for (index in indices.reversed())
{\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last
index of [element], or -1 if the array does not contain element.\n *^\n@Deprecated("The function has unclear
behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }'
instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get
the same search behavior as in a list.", ReplaceWith("indexOfLast { it == element
}"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\npublic fun
DoubleArray.lastIndexOf(element: Double): Int {\n for (index in indices.reversed()) {\n if (element ==
this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n *^\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n for
(index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -
1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n *^\npublic fun
CharArray.lastIndexOf(element: Char): Int {\n for (index in indices.reversed()) {\n if (element == this[index])
{\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element, or `null`

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if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n * \npublic fun <T>
Array<out T>.lastOrNull(): T? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n * \npublic
fun ByteArray.lastOrNull(): Byte? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n * \npublic
fun ShortArray.lastOrNull(): Short? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n * \npublic
fun IntArray.lastOrNull(): Int? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
* \npublic fun LongArray.lastOrNull(): Long? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n * \npublic fun FloatArray.lastOrNull(): Float? {\n    return if
(isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n * \npublic fun DoubleArray.lastOrNull(): Double? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
* \n * @sample samples.collections.Collections.Elements.last\n * \npublic fun BooleanArray.lastOrNull(): Boolean?
{\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is
empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
* \npublic fun CharArray.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n * \npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) ->
Boolean): T? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n * \npublic inline fun ByteArray.lastOrNull(predicate: (Byte) ->
Boolean): Byte? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null`
if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n * \npublic inline
fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n * \npublic inline fun IntArray.lastOrNull(predicate: (Int) ->
Boolean): Int? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n * \npublic inline fun LongArray.lastOrNull(predicate: (Long) ->
Boolean): Long?
{\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return
element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n * \npublic inline fun
FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n * \npublic inline fun DoubleArray.lastOrNull(predicate: (Double) ->
Boolean): Double? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    return null\n}\n\n/**\n

```

```

* Returns the last element matching the given [predicate], or `null` if no such element was found.
 * @sample
samples.collections.Collections.Elements.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

* Returns the last element matching the given [predicate], or `null` if no such element was found.
 * @sample
samples.collections.Collections.Elements.lastOrNull(predicate: (Char) -> Boolean): Char? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

* Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.random(): T {
    return random(Random)
}

* Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun ByteArray.random(): Byte {
    return random(Random)
}

* Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun ShortArray.random(): Short {
    return random(Random)
}

* Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntArray.random(): Int {
    return random(Random)
}

* Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongArray.random(): Long {
    return random(Random)
}

* Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun FloatArray.random(): Float {
    return random(Random)
}

* Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun DoubleArray.random(): Double {
    return random(Random)
}

* Returns a random element from this array.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun BooleanArray.random(): Boolean {
    return random(Random)
}

* Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
public fun <T> Array<out T>.random(random: Random): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

* Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
public fun ByteArray.random(random: Random): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

* Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
public fun ShortArray.random(random: Random): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

* Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
public fun IntArray.random(random: Random): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

* Returns a random element from this array using the specified source of randomness.
 * @throws NoSuchElementException if this array is empty.
 * @since Kotlin("1.3")
public fun LongArray.random(random: Random): Long {
    if (isEmpty())
        throw

```

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NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException
if this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun FloatArray.random(random: Random): Float {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun DoubleArray.random(random: Random): Double {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun BooleanArray.random(random: Random): Boolean {\n
    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun CharArray.random(random: Random): Char {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is
empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <T> Array<out T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.randomOrNull(): Byte? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
inline fun ShortArray.randomOrNull(): Short? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntArray.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongArray.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun FloatArray.randomOrNull(): Float? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is
empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.randomOrNull(): Double? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun BooleanArray.randomOrNull(): Boolean? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun CharArray.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness, or `null` if this array is
empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
Array<out T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
ByteArray.randomOrNull(random: Random): Byte? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
ShortArray.randomOrNull(random: Random): Short? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source
of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
IntArray.randomOrNull(random: Random): Int? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
LongArray.randomOrNull(random: Random): Long? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
FloatArray.randomOrNull(random: Random): Float? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from
this array using the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
DoubleArray.randomOrNull(random: Random): Double? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
BooleanArray.randomOrNull(random: Random): Boolean? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharArray.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n
*\npublic fun <T> Array<out T>.single(): T {\n return when (size) {\n 0 -> throw
NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*\npublic fun ByteArray.single(): Byte
{\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n
else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n
*\npublic fun ShortArray.single(): Short {\n return when (size) {\n 0 -> throw
NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*\npublic fun IntArray.single(): Int {\n return when (size) {\n 0 -> throw
NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*\npublic fun LongArray.single(): Long
{\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n
else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n

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else -> throw IllegalArgumentException("Array has more than one element.")\n }
}

FloatArray.single(): Float {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
    }
else -> throw IllegalArgumentException("Array has more than one element.")
}

DoubleArray.single(): Double {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

BooleanArray.single(): Boolean {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

CharArray.single(): Char {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}

public inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
            IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as T
}

public inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
            IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as Byte
}

public inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
            IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as Short
}

public inline fun IntArray.single(predicate: (Int) -> Boolean): Int {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
            IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as Int
}

public inline fun LongArray.single(predicate: (Long) -> Boolean): Long {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
            IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw
    NoSuchElementException("Array contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST") return single as Long
}

public inline fun

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FloatArray.single(predicate: (Float) -> Boolean): Float {\n  var single: Float? = null\n  var found =
false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n      single = element\n
found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as Float\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n  var single:
Double? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found)
throw IllegalArgumentException("Array contains more than one matching element.")\n      single = element\n
found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("Array contains
no element matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as
Double\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or
more than one matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean):
Boolean {\n  var single: Boolean? = null\n  var found = false\n  for (element in this) {\n    if
(predicate(element)) {\n      if (found) throw IllegalArgumentException("Array contains more than one
matching element.")\n      single = element\n      found = true\n    }\n  }\n  if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as Boolean\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic
inline fun CharArray.single(predicate:
(Char) -> Boolean): Char {\n  var single: Char? = null\n  var found = false\n  for (element in this) {\n    if
(predicate(element)) {\n      if (found) throw IllegalArgumentException("Array contains more than one
matching element.")\n      single = element\n      found = true\n    }\n  }\n  if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return single as Char\n}\n\n/**\n * Returns single element, or `null` if
the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n  return
if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than
one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n  return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun
ShortArray.singleOrNull(): Short? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element,
or `null` if the array is empty or has more than one element.\n */\npublic fun IntArray.singleOrNull(): Int? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n  return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun FloatArray.singleOrNull(): Float? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun DoubleArray.singleOrNull():
Double? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is
empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull():
Boolean? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is
empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n  return if (size == 1)
this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -
> Boolean): T? {\n  var single: T? = null\n  var found = false\n  for (element in this) {\n    if
(predicate(element)) {\n      if (found) return null\n      single = element\n      found = true\n    }\n  }\n
if (!found) return null\n  return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte?

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    {\n    var single: Byte? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n    var single: Short? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n    var single: Int? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n    var single: Long? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {\n    var single: Float? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n    var single: Double? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    var single: Boolean? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * @throws IllegalArgumentException if [n] is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * @throws IllegalArgumentException if [n] is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * @throws IllegalArgumentException if [n] is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * @throws IllegalArgumentException if [n] is negative.\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun

```

```

IntArray.drop(n: Int): List<Int> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return takeLast((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun LongArray.drop(n: Int): List<Long> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return takeLast((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun FloatArray.drop(n: Int): List<Float> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return takeLast((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun DoubleArray.drop(n: Int): List<Double> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return takeLast((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun BooleanArray.drop(n: Int): List<Boolean> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return takeLast((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun CharArray.drop(n: Int): List<Char> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return takeLast((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun <T> Array<out T>.dropLast(n: Int): List<T> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return take((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun ByteArray.dropLast(n: Int): List<Byte> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return take((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun ShortArray.dropLast(n: Int): List<Short> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return take((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun IntArray.dropLast(n: Int): List<Int> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return take((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun LongArray.dropLast(n: Int): List<Long> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return take((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun FloatArray.dropLast(n: Int): List<Float> {
  require(n >= 0) { "Requested element count $n is less than zero." }
  return take((size - n).coerceAtLeast(0))
}

/** Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample
samples.collections.Collections.Transformations.drop

public fun DoubleArray.dropLast(n: Int): List<Double>

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{\n require(n
>= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n]
is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun
BooleanArray.dropLast(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than
zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n
 * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out
T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if
(!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index
+ 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements
that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*/\npublic inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {\n for (index in
lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun
DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo
0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic
inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in
lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun
CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun

```

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<T> Array<out T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n  var yielding = false\n  val list =
ArrayList<T>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n  var yielding = false\n  val list = ArrayList<Byte>()\n  for (item in this)\n
if (yielding)\n    list.add(item)\n  else if (!predicate(item)) {\n    list.add(item)\n    yielding =
true\n  }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {\n  var yielding = false\n
val list = ArrayList<Short>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if
(!predicate(item)) {\n    list.add(item)\n    yielding = true\n  }\n  return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropWhile(predicate: (Int) ->
Boolean): List<Int> {\n  var yielding = false\n  val list = ArrayList<Int>()\n  for (item in this)\n    if
(yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n    list.add(item)\n    yielding = true\n
}\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun
LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n  var yielding = false\n  val list =
ArrayList<Long>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n    list.add(item)\n    yielding = true\n  }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropWhile(predicate:
(Float) -> Boolean): List<Float> {\n  var yielding = false\n  val list = ArrayList<Float>()\n  for (item in this)\n
if (yielding)\n    list.add(item)\n  else if (!predicate(item)) {\n    list.add(item)\n    yielding =
true\n  }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropWhile(predicate:
(Double) -> Boolean): List<Double> {\n  var yielding = false\n  val list = ArrayList<Double>()\n  for (item in
this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n    list.add(item)\n
yielding = true\n  }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic
inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  var yielding = false\n
val list = ArrayList<Boolean>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if
(!predicate(item)) {\n    list.add(item)\n    yielding =
true\n  }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun
CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {\n  var yielding = false\n  val list =
ArrayList<Char>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
list.add(item)\n    yielding = true\n  }\n  return list\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic
inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {\n  return
filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun
ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n  return
filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun

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ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n  return filterTo(ArrayList<Short>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean):
List<Int> {\n  return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline
fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n  return filterTo(ArrayList<Long>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filter(predicate: (Float) ->
Boolean): List<Float> {\n  return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\n
public inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n  return
filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun
BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n  return filterTo(ArrayList<Boolean>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filter(predicate: (Char) -> Boolean):
List<Char> {\n  return
filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Array<out
T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n  return filterIndexedTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic
inline fun ByteArray.filterIndexed(predicate:
(index: Int, Byte) -> Boolean): List<Byte> {\n  return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n *
Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n
* @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun
ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {\n  return
filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun IntArray.filterIndexed(predicate:
(index: Int, Int)
-> Boolean): List<Int> {\n  return filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list
containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an
element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun LongArray.filterIndexed(predicate:
(index: Int, Long) -> Boolean): List<Long> {\n  return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n *
Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n
* @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun
FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n  return
filterIndexedTo(ArrayList<Float>(),

```



```

predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic
inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n  return
filterIndexedTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun BooleanArray.filterIndexed(predicate:
(index: Int, Boolean) -> Boolean): List<Boolean> {\n  return filterIndexedTo(ArrayList<Boolean>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic
inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {\n  return
filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>>
Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n  forEachIndexed {
index, element
->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the
index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n *
@sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C :
MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean):
C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n
public inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate:
(index: Int, Short) -> Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n  forEachIndexed { index,
element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the
given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n  forEachIndexed {
index, element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n
public inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate:
(index: Int, Float) -> Boolean):

```

```

C {
    fun forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/** Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate:
(index: Int, Double) -> Boolean): C {
    fun forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}

/** Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the
 * element itself
 * and returns the result of predicate evaluation on
 * the element.
 * @sample samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) ->
Boolean): C {
    fun forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.add(element)
    }
    return destination
}

/** Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the
 * element itself
 * and returns the result of predicate evaluation on the element.
 * @sample
 * samples.collections.Collections.Filtering.filterIndexedTo
 */
public inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    fun forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

/** Returns a list containing all elements that are instances of specified type parameter R.
 * @sample
 * samples.collections.Collections.Filtering.filterIsInstance
 */
public inline fun <reified R>
Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {
    return filterIsInstanceTo(ArrayList<R>())
}

/** Appends all elements that are instances of specified type
 * parameter R to the given [destination].
 * @sample
 * samples.collections.Collections.Filtering.filterIsInstanceTo
 */
public inline fun <reified R, C :
MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {
    fun (element in this) if (element is R) destination.add(element)
    return destination
}

/** Returns a list containing all elements not matching
 * the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun <T>
Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {
    return filterNotTo(ArrayList<T>(),
    predicate)
}

/** Returns a list containing all elements not matching the given [predicate].
 * @sample
 * samples.collections.Collections.Filtering.filter
 */
public inline fun ByteArray.filterNot(predicate: (Byte) ->
Boolean): List<Byte> {
    return filterNotTo(ArrayList<Byte>(), predicate)
}

/** Returns a list containing
 * all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {
    return filterNotTo(ArrayList<Short>(), predicate)
}

/** Returns a list containing all elements not matching the
 * given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {
    return filterNotTo(ArrayList<Int>(),
    predicate)
}

/** Returns a list containing all elements not matching the given [predicate].
 * @sample
 * samples.collections.Collections.Filtering.filter
 */
public inline fun LongArray.filterNot(predicate: (Long) ->
Boolean): List<Long> {
    return filterNotTo(ArrayList<Long>(), predicate)
}

/** Returns a list
 * containing all elements not matching the given [predicate].
 * @sample
 * samples.collections.Collections.Filtering.filter
 */
public inline fun FloatArray.filterNot(predicate: (Float) ->
Boolean): List<Float> {
    return filterNotTo(ArrayList<Float>(), predicate)
}

/** Returns a list
 * containing all elements not matching the given [predicate].
 * @sample
 * samples.collections.Collections.Filtering.filter
 */
public inline fun DoubleArray.filterNot(predicate: (Double) ->
Boolean): List<Double> {
    return filterNotTo(ArrayList<Double>(), predicate)
}

/** Returns a list
 * containing all elements not matching the given [predicate].
 * @sample

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samples.collections.Collections.Filtering.filter\n *\npublic inline fun BooleanArray.filterNot(predicate:
  (Boolean) -> Boolean): List<Boolean> {\n  return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n *
Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun CharArray.filterNot(predicate: (Char) ->
Boolean): List<Char> {\n  return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements that are not `null`.\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNull\n *\npublic
fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n  return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n *
Appends all elements that are not `null` to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic fun <C : MutableCollection<in T>, T : Any>
Array<out T?>.filterNotNullTo(destination: C): C {\n  for (element in this) if (element != null)
destination.add(element)\n
  return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given
[destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C :
MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Byte>>
ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic
inline fun <C : MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) ->
Boolean): C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in
Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in Double>>
DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline
fun <C : MutableCollection<in Boolean>> BooleanArray.filterNotTo(destination: C, predicate: (Boolean) ->
Boolean): C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in
Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n

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*^public inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) ->
Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n
 * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^public inline fun <C : MutableCollection<in Byte>>
ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if (predicate(element))
destination.add(element)\n return destination\n}\n\n/**\n
 * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *^public inline fun
<C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n
 * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^public inline fun <C : MutableCollection<in
Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if
(predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n
 * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*^public inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) ->
Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n
 * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *^public inline fun <C : MutableCollection<in
Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n for (element in this) if
(predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n
 * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^public inline fun <C : MutableCollection<in Double>>
DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n for (element in this) if
(predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n
 * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*^public inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate:
(Boolean) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n
 * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *^public inline fun <C : MutableCollection<in
Char>> CharArray.filterTo(destination:
C, predicate: (Char) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n
return destination\n}\n\n/**\n
 * Returns a list containing elements at indices in the specified [indices] range.\n
*^public fun <T> Array<out T>.slice(indices: IntRange): List<T> {\n if (indices.isEmpty()) return listOf()\n
return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n
 * Returns a list containing elements at indices in the specified [indices] range.\n
*^public fun ByteArray.slice(indices: IntRange): List<Byte> {\n if
(indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n
 * Returns a list containing elements at indices in the specified [indices] range.\n
*^public fun ShortArray.slice(indices: IntRange): List<Short> {\n if (indices.isEmpty()) return listOf()\n return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n
 * Returns
a list containing elements at indices in the specified [indices] range.\n
*^public fun IntArray.slice(indices:
IntRange): List<Int> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start,
indices.endInclusive + 1).asList()\n}\n\n/**\n
 * Returns a list containing elements at indices in the specified
[indices] range.\n
*^public fun LongArray.slice(indices: IntRange): List<Long> {\n if (indices.isEmpty()) return
listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n
 * Returns a list
containing elements at indices in the specified [indices] range.\n
*^public fun FloatArray.slice(indices: IntRange):
List<Float> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n
 * Returns a list containing elements at indices in the specified [indices] range.\n
*^public

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fun DoubleArray.slice(indices: IntRange): List<Double> {\n  if (indices.isEmpty())
  return listOf()\n  return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.slice(indices:
IntRange): List<Boolean> {\n  if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start,
indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified
[indices] range.\n */\npublic fun CharArray.slice(indices: IntRange): List<Char> {\n  if (indices.isEmpty()) return
listOf()\n  return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list
containing elements at specified [indices].\n */\npublic fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T>
{\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list =
ArrayList<T>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun
ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size
== 0) return emptyList()\n  val list = ArrayList<Byte>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun
ShortArray.slice(indices: Iterable<Int>): List<Short> {\n  val size = indices.collectionSizeOrDefault(10)\n  if
(size == 0) return emptyList()\n  val list = ArrayList<Short>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun
IntArray.slice(indices: Iterable<Int>): List<Int> {\n  val size =
indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<Int>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n  val size
= indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<Long>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n  val size =
indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<Float>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n  val
size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<Double>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>): List<Boolean> {\n  val size =
indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<Boolean>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>): List<Char> {\n  val size =
indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list = ArrayList<Char>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n * Returns an array containing
elements of this array at specified [indices].\n */\npublic fun <T> Array<T>.sliceArray(indices:
Collection<Int>): Array<T> {\n  val result = arrayOfNulls(this, indices.size)\n  var targetIndex = 0\n  for
(sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n  val result = ByteArray(indices.size)\n  var
targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n  val result = ShortArray(indices.size)\n  var
targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return
result\n}\n\n/**\n * Returns an array containing elements of this array
at specified [indices].\n */\npublic fun IntArray.sliceArray(indices: Collection<Int>): IntArray {\n  val result =
IntArray(indices.size)\n  var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] =

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this[sourceIndex]\n } return result\n\n/**\n * Returns an array containing elements of this array at specified
[indices].\n */\npublic fun LongArray.sliceArray(indices: Collection<Int>): LongArray {\n    val result =
LongArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] =
this[sourceIndex]\n    }\n    return result\n\n}\n\n/**\n * Returns an array containing elements of this array at specified
[indices].\n */\npublic fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n    val result =
FloatArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] =
this[sourceIndex]\n    }\n    return result\n\n}\n\n/**\n * Returns
an array containing elements of this array at specified [indices].\n */\npublic fun DoubleArray.sliceArray(indices:
Collection<Int>): DoubleArray {\n    val result = DoubleArray(indices.size)\n    var targetIndex = 0\n    for
(sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n\n}\n\n/**\n *
Returns an array containing elements of this array at specified [indices].\n */\npublic fun
BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n    val result = BooleanArray(indices.size)\n
var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n
return result\n\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
CharArray.sliceArray(indices: Collection<Int>): CharArray {\n    val result = CharArray(indices.size)\n    var
targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n
    }\n    return result\n\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n
*/\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n    if (indices.isEmpty()) return
copyOfRange(0, 0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n\n}\n\n/**\n * Returns an array
containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices:
IntRange): ByteArray {\n    if (indices.isEmpty()) return ByteArray(0)\n    return copyOfRange(indices.start,
indices.endInclusive + 1)\n\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]
range.\n */\npublic fun ShortArray.sliceArray(indices: IntRange): ShortArray {\n    if (indices.isEmpty()) return
ShortArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n\n}\n\n/**\n * Returns an array
containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices:
IntRange): IntArray {\n    if (indices.isEmpty()) return IntArray(0)\n    return copyOfRange(indices.start,
indices.endInclusive + 1)\n\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]
range.\n */\npublic fun LongArray.sliceArray(indices: IntRange): LongArray {\n    if (indices.isEmpty()) return
LongArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n\n}\n\n/**\n * Returns an array
containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices:
IntRange): FloatArray {\n    if (indices.isEmpty()) return FloatArray(0)\n    return copyOfRange(indices.start,
indices.endInclusive + 1)\n\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]
range.\n */\npublic fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n    if (indices.isEmpty()) return
DoubleArray(0)\n    return copyOfRange(indices.start, indices.endInclusive + 1)\n\n}\n\n/**\n * Returns an array
containing elements at indices in the specified [indices] range.\n */\npublic fun
BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n    if (indices.isEmpty()) return BooleanArray(0)\n
return copyOfRange(indices.start, indices.endInclusive + 1)\n\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n */\npublic fun CharArray.sliceArray(indices: IntRange): CharArray {\n
if (indices.isEmpty()) return CharArray(0)\n    return copyOfRange(indices.start, indices.endInclusive +
1)\n\n}\n\n/**\n * Returns a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is
negative.\n */\n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out
T>.take(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    if (n == 0)
return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n
    var count = 0\n    val list = ArrayList<T>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n
break\n    }\n    return list\n\n}\n\n/**\n * Returns a list containing first [n] elements.\n */\n * @throws
IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n    if (n == 0) return emptyList()\n    if (n >=

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size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Byte>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Short>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n: Int): List<Int> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Int>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Long>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Float>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int): List<Boolean> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Boolean>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.take(n: Int): List<Char> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Char>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<T>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n

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require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Byte>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Short>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Int>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.takeLast(n: Int): List<Long> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Long>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Float>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.takeLast(n: Int): List<Double> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Double>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.takeLast(n: Int): List<Boolean> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Boolean>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.takeLast(n: Int): List<Char> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<Char>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte>

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    {
        for (index in lastIndex downTo 0) {
            if (!predicate(this[index])) {
                return drop(index + 1)
            }
        }
        return toList()
    }
}

```

\* Returns a list containing last elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return drop(index + 1)
 }
 }
 return toList()
}

\* Returns a list containing last elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return drop(index + 1)
 }
 }
 return toList()
}

\* Returns a list containing last elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return drop(index + 1)
 }
 }
 return toList()
}

\* Returns a list containing last elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return drop(index + 1)
 }
 }
 return toList()
}

\* Returns a list containing last elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return drop(index + 1)
 }
 }
 return toList()
}

\* Returns a list containing last elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return drop(index + 1)
 }
 }
 return toList()
}

\* Returns a list containing last elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return drop(index + 1)
 }
 }
 return toList()
}

\* Returns a list containing first elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {
 val list = ArrayList<T>()
 for (item in this) {
 if (!predicate(item)) {
 break
 }
 list.add(item)
 }
 return list
}

\* Returns a list containing first elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {
 val list = ArrayList<Byte>()
 for (item in this) {
 if (!predicate(item)) {
 break
 }
 list.add(item)
 }
 return list
}

\* Returns a list containing first elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {
 val list = ArrayList<Short>()
 for (item in this) {
 if (!predicate(item)) {
 break
 }
 list.add(item)
 }
 return list
}

\* Returns a list containing first elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {
 val list = ArrayList<Int>()
 for (item in this) {
 if (!predicate(item)) {
 break
 }
 list.add(item)
 }
 return list
}

\* Returns a list containing first elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {
 val list = ArrayList<Long>()
 for (item in this) {
 if (!predicate(item)) {
 break
 }
 list.add(item)
 }
 return list
}

\* Returns a list containing first elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

public inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {
 val list = ArrayList<Float>()
 for (item in this) {
 if (!predicate(item)) {
 break
 }
 list.add(item)
 }
 return list
}

\* Returns a list containing first elements satisfying the given [predicate].

@sample samples.collections.Collections.Transformations.take

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this) {\n    if (!predicate(item))\n        break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n *\n * @sample\n samples.collections.Collections.Transformations.take\n *\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n    val list = ArrayList<Double>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n            list.add(item)\n        }\n        return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n *\n * @sample\n samples.collections.Collections.Transformations.take\n *\npublic inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n    val list = ArrayList<Boolean>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n            list.add(item)\n        }\n        return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n *\n * @sample\n samples.collections.Collections.Transformations.take\n *\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n    val list = ArrayList<Char>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n            list.add(item)\n        }\n        return list\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun <T> Array<T>.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun ByteArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun ShortArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun IntArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun LongArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun FloatArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun DoubleArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun BooleanArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun CharArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n *\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n *\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun <T> Array<T>.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if

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(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n
 * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range
(exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun ByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start
of the range (inclusive) to reverse.\n * @param toIndex the end of the
range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun ShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start
of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start
of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start
of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if
(fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start
of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if

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    (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n
    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * @param fromIndex the\n * start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this\n * array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if\n    (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint)\n    {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * @param\n * fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to\n * reverse.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than\n * the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if\n    (fromIndex == midPoint) return\n    var reverseIndex = toIndex - 1\n    for (index in fromIndex until midPoint) {\n
        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n
        reverseIndex--\n    }\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun <T>\nArray<out T>.reversed(): List<T> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun\nByteArray.reversed(): List<Byte> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun\nShortArray.reversed(): List<Short> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun\nIntArray.reversed(): List<Int> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun\nLongArray.reversed(): List<Long> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun\nFloatArray.reversed(): List<Float> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun\nDoubleArray.reversed(): List<Double> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun\nBooleanArray.reversed(): List<Boolean> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun\nCharArray.reversed(): List<Char> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n\npublic fun <T>\nArray<T>.reversedArray(): Array<T> {\n    if (isEmpty()) return this\n    val result =\n    arrayOfNulls(this, size)\n    val lastIndex = lastIndexOf\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n\npublic fun\nByteArray.reversedArray(): ByteArray {\n    if (isEmpty()) return this\n    val result = ByteArray(size)\n    val\n    lastIndex = lastIndexOf\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n\npublic fun\nShortArray.reversedArray():\nShortArray {\n    if (isEmpty()) return this\n    val result = ShortArray(size)\n    val lastIndex = lastIndexOf\n    for (i in\n    0..lastIndex)\n        result[lastIndex - i] = this[i]\n
    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n\npublic fun\nIntArray.reversedArray(): IntArray {\n    if (isEmpty()) return this\n    val result = IntArray(size)\n    val lastIndex =\n    lastIndexOf\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array

```

```

with elements of this array in reversed order.\n */\npublic fun LongArray.reversedArray(): LongArray {\n    if\n    (isEmpty()) return this\n    val result = LongArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed\n    order.\n */\npublic fun FloatArray.reversedArray(): FloatArray {\n    if (isEmpty()) return this\n    val result =\n    FloatArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n    return\n    result\n}\n\n/**\n * Returns\n    an array with elements of this array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray\n    {\n    if (isEmpty()) return this\n    val result = DoubleArray(size)\n    val lastIndex = lastIndex\n    for (i in\n    0..lastIndex)\n    result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this\n    array in reversed order.\n */\npublic fun BooleanArray.reversedArray(): BooleanArray {\n    if (isEmpty()) return\n    this\n    val result = BooleanArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n    result[lastIndex\n    - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun CharArray.reversedArray(): CharArray {\n    if (isEmpty()) return this\n    val result =\n    CharArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n    return\n    result\n}\n\n/**\n * Randomly shuffles elements in this\n    array in-place.\n */\n@SinceKotlin("1.4")\npublic fun <T> Array<T>.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly\n    shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly\n    shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly\n    shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle():\n    Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly\n    shuffles elements in this array in-place using the specified [random]\n    instance as the source of randomness.\n */\n * See:\n    https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin("1.4")\npublic fun <T> Array<T>.shuffle(random: Random): Unit {\n    for (i in lastIndex\n    downTo 1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the\n    source of randomness.\n */\n * See:\n    https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo\n    1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the\n    source of randomness.\n */\n * See:\n    https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo\n    1) {\n    val j = random.nextInt(i + 1)\n    val copy = this[i]\n    this[i] = this[j]\n    this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the\n    source of randomness.\n */\n * See:\n    https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin("1.4")\npublic

```

```

fun IntArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness. See: [https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)

```

@SinceKotlin("1.4")
public fun LongArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness. See: [https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)

```

@SinceKotlin("1.4")
public fun FloatArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness. See: [https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)

```

@SinceKotlin("1.4")
public fun DoubleArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness. See: [https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)

```

@SinceKotlin("1.4")
public fun BooleanArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness. See: [https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)

```

@SinceKotlin("1.4")
public fun CharArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

```

\* Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortWith(compareBy(selector))
}

```

\* Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortWith(compareByDescending(selector))
}

```

\* Sorts elements in the array in-place descending according to their natural sort order. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {
    sortWith(reverseOrder())
}

```

\* Sorts elements in the array in-place descending according to their natural sort order.

```

public fun ShortArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

```

\* Sorts elements in the array in-place descending according to their natural sort order.

```

public fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

```

\* Sorts elements in the array in-place descending according to their natural sort order.

```

public fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

```

\* Sorts elements in the array in-place descending according to their natural sort order.

```

public fun FloatArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

```

\* Sorts elements in the array in-place descending according to their natural sort order.

```

their natural sort order.\n */\npublic fun DoubleArray.sortDescending(): Unit {\n
    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending
according to their natural sort order.\n */\npublic fun CharArray.sortDescending(): Unit {\n    if (size > 1) {\n
sort()\n        reverse()\n    }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
*\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
*/\npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n    return
sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
*/\npublic fun ByteArray.sorted(): List<Byte> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n *
Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ShortArray.sorted():
List<Short> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns
a list of all elements sorted according to their natural sort order.\n */\npublic fun IntArray.sorted(): List<Int> {\n
return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their
natural sort order.\n */\npublic fun LongArray.sorted(): List<Long> {\n    return toTypedArray().apply { sort()
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
FloatArray.sorted(): List<Float> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of
all elements sorted according to their natural sort order.\n */\npublic fun DoubleArray.sorted(): List<Double> {\n
return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their
natural sort order.\n */\npublic fun CharArray.sorted(): List<Char> {\n    return toTypedArray().apply { sort()
}.asList()\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n *\n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<T>.sortedArray(): Array<T> {\n    if (isEmpty()) return this\n    return this.copyOf().apply { sort()
}\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*/\npublic fun ByteArray.sortedArray(): ByteArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply {
sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*/\npublic fun ShortArray.sortedArray(): ShortArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply {
sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*/\npublic fun IntArray.sortedArray(): IntArray {\n    if (isEmpty()) return
this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted
according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n    if (isEmpty())
return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array
sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n
if (isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n
if (isEmpty()) return this\n    return this.copyOf().apply { sort()
}\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort
order.\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after
sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArrayDescending(): Array<T> {\n    if (isEmpty())
return this\n    return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n */\npublic fun
ByteArray.sortedArrayDescending(): ByteArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun ShortArray.sortedArrayDescending(): ShortArray {\n    if (isEmpty()) return
this\n    return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n */\npublic fun
IntArray.sortedArrayDescending(): IntArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply {

```

```
sortDescending() } \n\n/** \n * Returns an array with all elements of this array sorted descending according to
their natural sort order. \n */ \n public fun LongArray.sortedArrayDescending(): LongArray { \n if (isEmpty()) return
this \n return this.copyOf().apply { sortDescending() } \n } \n\n/** \n * Returns an array with all elements of this
array sorted descending according to their natural sort order. \n */ \n public fun FloatArray.sortedArrayDescending():
FloatArray { \n if (isEmpty()) return this \n return this.copyOf().apply { sortDescending() } \n } \n\n/** \n * Returns
an array with all elements of this array sorted descending according to their natural sort order. \n */ \n public fun
DoubleArray.sortedArrayDescending(): DoubleArray { \n if (isEmpty()) return this \n return this.copyOf().apply
{ sortDescending() } \n } \n\n/** \n * Returns an array with all elements of this array sorted descending according to
their natural sort order. \n */ \n public fun CharArray.sortedArrayDescending(): CharArray { \n if (isEmpty()) return
this \n return this.copyOf().apply { sortDescending() } \n } \n\n/** \n * Returns an array with all elements of this
array sorted according the specified [comparator]. \n * \n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting. \n */ \n public fun <T> Array<out
T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> { \n if (isEmpty()) return this \n return
this.copyOf().apply { sortWith(comparator) } \n } \n\n/** \n * Returns a list of all elements sorted according to natural
sort order of the value returned by specified [selector] function. \n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting. \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy \n
*/ \n public inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> { \n
return sortedWith(compareBy(selector)) \n } \n\n/** \n * Returns a list of all elements sorted according to natural sort
order of the value returned by specified [selector] function. \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy \n
*/ \n public inline fun <R : Comparable<R>>
ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> { \n return
sortedWith(compareBy(selector)) \n } \n\n/** \n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function. \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy \n
*/ \n public inline fun <R : Comparable<R>>
ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> { \n return
sortedWith(compareBy(selector)) \n } \n\n/** \n * Returns a list of all elements sorted according to natural
sort order of the value returned by specified [selector] function. \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy \n
*/ \n public inline fun <R : Comparable<R>>
IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> { \n return
sortedWith(compareBy(selector)) \n } \n\n/** \n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function. \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy \n
*/ \n public inline fun <R : Comparable<R>>
LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> { \n return
sortedWith(compareBy(selector)) \n } \n\n/** \n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function. \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy \n
*/ \n public inline fun <R : Comparable<R>>
FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> { \n return
sortedWith(compareBy(selector)) \n } \n\n/** \n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function. \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy \n
*/ \n public inline fun <R :
Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> { \n return
sortedWith(compareBy(selector)) \n } \n\n/** \n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function. \n * \n * @sample
samples.collections.Collections.Sorting.sortedBy \n
*/ \n public inline fun <R : Comparable<R>>
BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> { \n return
sortedWith(compareBy(selector)) \n } \n\n/** \n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function. \n * \n * @sample
```



`samples.collections.Collections.Sorting.sortedBy`  
`<R : Comparable<R>>`  
`CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {`  
`return`  
`sortedWith(compareBy(selector))}`  
`</n>`  
`* Returns a list of all elements sorted descending according to natural`  
`sort order of the value returned by specified [selector] function.`  
`<n>`  
`* The sort is _stable_. It means that equal`  
`elements preserve their order relative to each other after sorting.`  
`<n>`  
`</n>`  
`public inline fun <T, R : Comparable<R>>`  
`Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to natural sort order of the value returned by specified [selector] function.`  
`<n>`  
`</n>`  
`public inline fun <R :`  
`Comparable<R>>`  
`ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to natural sort order of the`  
`value returned by specified [selector] function.`  
`<n>`  
`</n>`  
`public inline fun <R : Comparable<R>>`  
`ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to natural sort order of the value returned by specified [selector] function.`  
`<n>`  
`</n>`  
`public inline fun <R :`  
`Comparable<R>>`  
`IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to natural sort order of the value returned by specified [selector] function.`  
`<n>`  
`</n>`  
`public inline fun <R :`  
`Comparable<R>>`  
`LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to natural sort order of the value returned`  
`by specified [selector] function.`  
`<n>`  
`</n>`  
`public inline fun <R : Comparable<R>>`  
`FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to natural sort order of the value returned by specified [selector] function.`  
`<n>`  
`</n>`  
`public inline fun <R :`  
`Comparable<R>>`  
`DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to natural sort order of the value returned by specified [selector] function.`  
`<n>`  
`</n>`  
`public inline fun <R :`  
`Comparable<R>>`  
`BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to natural sort order of the value returned`  
`by specified [selector] function.`  
`<n>`  
`</n>`  
`public inline fun <R : Comparable<R>>`  
`CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {`  
`return`  
`sortedWith(compareByDescending(selector))}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to their natural sort order.`  
`<n>`  
`* The sort is _stable_. It means that equal elements preserve their order`  
`relative to each other after sorting.`  
`<n>`  
`</n>`  
`public fun <T : Comparable<T>>`  
`Array<out T>.sortedDescending():`  
`List<T> {`  
`return`  
`sortedWith(reverseOrder())}`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending`  
`according to their natural sort order.`  
`<n>`  
`</n>`  
`public fun ByteArray.sortedDescending(): List<Byte> {`  
`return`  
`copyOf().apply { sort() }.reversed()`  
`</n>`  
`<n>`  
`* Returns a list of all elements sorted descending according to their`  
`natural sort order.`  
`<n>`  
`</n>`  
`public fun ShortArray.sortedDescending(): List<Short> {`  
`return`  
`copyOf().apply { sort() }`  
`}.reversed()`  
`</n>`  
`<n>`  
`* Returns`  
`a list of all elements sorted descending according to their natural sort order.`  
`<n>`  
`</n>`  
`public fun`  
`IntArray.sortedDescending(): List<Int> {`  
`return`  
`copyOf().apply { sort() }.reversed()`  
`</n>`  
`<n>`  
`* Returns a list`  
`of all elements sorted descending according to their natural sort order.`  
`<n>`  
`</n>`  
`public fun`  
`LongArray.sortedDescending(): List<Long> {`  
`return`  
`copyOf().apply { sort() }.reversed()`  
`</n>`  
`<n>`  
`* Returns`  
`a list of all elements sorted descending according to their natural sort order.`  
`<n>`  
`</n>`  
`public fun`  
`FloatArray.sortedDescending(): List<Float> {`  
`return`  
`copyOf().apply { sort() }.reversed()`  
`</n>`  
`<n>`  
`* Returns`  
`a list of all elements sorted descending according to their natural sort order.`  
`<n>`  
`</n>`  
`public fun`

DoubleArray.sortedDescending(): List<Double> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun

CharArray.sortedDescending(): List<Char> {\n return
 copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified
 [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other
 after sorting.\n \*/\npublic fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {\n return
 sortedArrayWith(comparator).asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified
 [comparator].\n \*/\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n return
 toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according
 to the specified [comparator].\n \*/\npublic fun ShortArray.sortedWith(comparator: Comparator<in Short>):
 List<Short> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all
 elements sorted according to the specified [comparator].\n \*/\npublic fun IntArray.sortedWith(comparator:
 Comparator<in Int>): List<Int> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \*
 Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun
 LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {\n return toTypedArray().apply {
 sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified
 [comparator].\n \*/\npublic fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {\n return
 toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according
 to the specified [comparator].\n \*/\npublic fun DoubleArray.sortedWith(comparator: Comparator<in Double>):
 List<Double> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all
 elements sorted according to the specified [comparator].\n \*/\npublic fun BooleanArray.sortedWith(comparator:
 Comparator<in Boolean>): List<Boolean> {\n return toTypedArray().apply { sortWith(comparator)
 }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun
 CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {\n return toTypedArray().apply {
 sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun
 <T> Array<out T>.asList(): List<T>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect
 fun ByteArray.asList(): List<Byte>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun
 ShortArray.asList(): List<Short>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun
 IntArray.asList(): List<Int>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun
 LongArray.asList(): List<Long>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\npublic expect fun
 FloatArray.asList(): List<Float>\n\n/\*\*\n \* Returns a [List] that wraps the original
 array.\n \*/\npublic expect fun DoubleArray.asList(): List<Double>\n\n/\*\*\n \* Returns a [List] that wraps the
 original
 array.\n \*/\npublic expect fun BooleanArray.asList(): List<Boolean>\n\n/\*\*\n \* Returns a [List] that wraps the
 original
 array.\n \*/\npublic expect fun CharArray.asList(): List<Char>\n\n/\*\*\n \* Returns `true` if the two specified
 arrays are *deeply* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n
 \* \n \* If two corresponding elements are nested arrays, they are also compared deeply.\n \* If any of arrays contains
 itself on any nesting level the behavior is undefined.\n \* \n \* The elements of other types are compared for equality
 with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and
 `-0.0` is not equal to `0.0`.\n \*/\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic
 expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/\*\*\n \* Returns `true` if
 the two specified arrays are *deeply* equal to one another,\n \* i.e. contain the same number of the same elements in
 the same order.\n \* \n \* The specified arrays are also considered deeply equal if both are `null`.\n \* \n \* If
 two corresponding elements are nested arrays, they are also compared deeply.\n \* If any of arrays contains itself on
 any nesting level the behavior is undefined.\n \* \n \* The elements of other types are compared for equality with the
 [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and
 `-0.0` is not equal to `0.0`.\n \*/\n@SinceKotlin("1.4")\npublic expect infix fun <T> Array<out T>?.contentDeepEquals(other:
 Array<out T>?): Boolean\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*
 Nested arrays are treated as lists too.\n \*/\n}

\* If any of arrays contains itself on any nesting level the behavior is undefined.\n

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentDeepHashCode(): Int\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * @sample\n samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out T>.contentDeepToString(): String\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * @sample\n samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentDeepToString(): String\n\n/**\n * Returns `true` if the two specified arrays are\n *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are\n *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are\n *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are\n *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are\n *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are\n *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n
```

\* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@SinceKotlin("1.4")\npublic expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@SinceKotlin("1.4")\npublic expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@SinceKotlin("1.4")\npublic expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@SinceKotlin("1.4")\npublic expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@SinceKotlin("1.4")\npublic expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@SinceKotlin("1.4")\npublic expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are compared for equality with the [equals][Any.equals] function. \n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. \n \*/\n@SinceKotlin("1.4")\npublic expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another, \n \* i.e. contain the same number of the same elements in the same order. \n \* \n \* The elements are

compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`BooleanArray?.contentEquals(other: BooleanArray?): Boolean`

\* Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.

\* The elements are compared for equality with the [equals][Any.equals] function.

\* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`CharArray?.contentEquals(other: CharArray?): Boolean`

\* Returns a hash code based on the contents of this array as if it is [List].

`IntArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`LongArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`FloatArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`DoubleArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`BooleanArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`CharArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`<T> Array<out T>?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`ByteArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`ShortArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`IntArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`LongArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`FloatArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`DoubleArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

`BooleanArray?.contentHashCode(): Int`

\* Returns a hash code based on the contents of this array as if it is [List].

```

*^@SinceKotlin("1.4")\npublic expect fun CharArray?.contentHashCode(): Int\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *^@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
expect fun <T> Array<out T>.contentToString(): String\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *^@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
expect fun ByteArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the
specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
ShortArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
IntArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
LongArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *^@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
expect fun FloatArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the
specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
DoubleArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
BooleanArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun
CharArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentToString(): String\n\n/**\n * Returns a
string representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *^@SinceKotlin("1.4")\npublic
expect fun ByteArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the
specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentToString(): String\n\n/**\n * Returns a string
representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *^@SinceKotlin("1.4")\npublic expect fun
IntArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array
as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n

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*\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\npublic expect fun FloatArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\npublic expect fun BooleanArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentToString(): String\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

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0 by default. \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* @since Kotlin("1.3")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* @since Kotlin("1.3")\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* @since Kotlin("1.3")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n \* \n \* @since Kotlin("1.3")\npublic expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array. \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n \* \n \* @param destination the array to copy to. \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination]



array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* /\n \* @SinceKotlin("1.3")\n \* \n \* public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n \* \n \* \n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* \n \* @param destination the array to copy to.\n \* \n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* \n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* \n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* \n \* or when that index is out of the [destination] array indices range.\n \* \n \* \n \* @return the [destination] array.\n \* \n \* /\n \* @SinceKotlin("1.3")\n \* \n \* public expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* @Suppress("NO\_ACTUAL\_FOR\_EXPECT")\n \* \n \* public expect fun <T> Array<T>.copyOf(): Array<T>\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* public expect fun ByteArray.copyOfOf(): ByteArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* public expect fun ShortArray.copyOfOf(): ShortArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* public expect fun IntArray.copyOfOf(): IntArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* public expect fun LongArray.copyOfOf(): LongArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* public expect fun FloatArray.copyOfOf(): FloatArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* public expect fun DoubleArray.copyOfOf(): DoubleArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* public expect fun BooleanArray.copyOfOf(): BooleanArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array.\n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \* \n \* /\n \* public expect fun CharArray.copyOfOf(): CharArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* \n \* \n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* \n \* \n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \* \n \* /\n \* public expect fun ByteArray.copyOfOf(newSize: Int): ByteArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* \n \* \n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* \n \* \n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \* \n \* /\n \* public expect fun ShortArray.copyOfOf(newSize: Int): ShortArray\n \* \n \* \n \* \n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* \n \* \n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* \n \* \n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* \n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \* \n \* /\n \* public

expect fun IntArray.copyOf(newSize:

Int): IntArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun

LongArray.copyOf(newSize: Int): LongArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun

FloatArray.copyOf(newSize: Int): FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic

expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `false` values if necessary.\n \* \n \* - If [newSize]

is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n \* \n \*

@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun

BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\u0000`) values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*/\npublic expect fun

CharArray.copyOf(newSize: Int): CharArray\n\n/\*\*\n

\* Returns new array which is a copy of the original array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `null` values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n \* \n \* @sample

samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n

\*/\n\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.copyOf(newSize: Int):

Array<T?>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException

if [fromIndex] is greater than [toIndex].\n \*/\n\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun

<T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws

IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\npublic expect fun

ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* \n \*

@param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@SinceKotlin("1.3")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit

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@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.3")\npublic
expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or
its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill,
0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size):
Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the
start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of
this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex]
is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.3")\npublic expect fun LongArray.fill(element:
Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.3")\npublic
expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or
its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int =
size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex
the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n *^\n@SinceKotlin("1.3")\npublic expect fun BooleanArray.fill(element:
Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *^\n@SinceKotlin("1.3")\npublic
expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns the range
of valid indices for the array.\n *^\npublic val <T> Array<out T>.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^\npublic val ByteArray.indices: IntRange\n
    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n
*\n@SinceKotlin("1.3")\npublic val ShortArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid
indices for the array.\n *^\npublic val IntArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n *
Returns the range of valid indices for the array.\n *^\npublic val LongArray.indices: IntRange\n    get() =
IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^\npublic val
FloatArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the
array.\n *^\npublic val DoubleArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n *^\npublic val BooleanArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^\npublic val CharArray.indices: IntRange\n
    get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n
*\n@kotlin.internal.InlineOnly\npublic

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inline fun <T> Array<out T>.isEmpty(): Boolean {\n  return size == 0\n}\n\n/**\n * Returns `true` if the array is
empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean {\n  return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.isEmpty(): Boolean {\n  return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean {\n  return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty():
Boolean {\n  return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty(): Boolean {\n  return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty():
Boolean {\n  return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isEmpty(): Boolean {\n  return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.isEmpty(): Boolean {\n  return size == 0\n}\n\n/**\n * Returns `true` if the array is not empty.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isNotEmpty(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun ByteArray.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isNotEmpty(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun IntArray.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isNotEmpty(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun FloatArray.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isNotEmpty(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun BooleanArray.isNotEmpty(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isNotEmpty(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val <T> Array<out T>.lastIndex:
Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val ByteArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val ShortArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val IntArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val LongArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val FloatArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val DoubleArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val BooleanArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\n\npublic val CharArray.lastIndex: Int\n  get() = size - 1\n\n/**\n * Returns an array containing
all elements of the original array and then the given [element].\n */\n\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(element: T):
Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n
*/\n\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n */\n\npublic expect operator fun
ShortArray.plus(element: Short): ShortArray\n\n/**\n * Returns an array containing all elements of the original
array and then the given [element].\n */\n\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n/**\n
* Returns an array containing all elements of the original array and then the given [element].\n */\n\npublic expect
operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n */\n\npublic

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expect operator fun FloatArray.plus(element: Float): FloatArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun BooleanArray.plus(element: Boolean): BooleanArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\npublic expect operator fun CharArray.plus(element: Char): CharArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n\n\*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n\n\*/\npublic expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun IntArray.plus(elements: Collection<Int>): IntArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun LongArray.plus(elements: Collection<Long>): LongArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic expect operator fun CharArray.plus(elements: Collection<Char>): CharArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n\n\*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun CharArray.plus(elements: CharArray): CharArray\n\n\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n\*\*\n \* Sorts the array in-place.\n \* \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun IntArray.sort(): Unit\n\n\*\*\n \* Sorts the array

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in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*/\npublic expect fun LongArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ByteArray.sort(): Unit\n\n/**\n * Sorts the
array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun
ShortArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun DoubleArray.sort(): Unit\n\n/**\n * Sorts the
array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun
FloatArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun CharArray.sort(): Unit\n\n/**\n * Sorts the
array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after
sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic expect fun <T :
Comparable<T>> Array<out T>.sort(): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is
_stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param
fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n */\n@SinceKotlin("1.4")\npublic expect
fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range
in the array in-place.\n * \n * @param fromIndex the start
of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of
this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
* \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin("1.4")\npublic expect
fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n
* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin("1.4")\npublic expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size):
Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to
sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin("1.4")\npublic expect fun
IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n
* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin("1.4")\npublic expect fun
LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n
* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin("1.4")\npublic expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n

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* Sorts a range in the
array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param
toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n * \n * @SinceKotlin("1.4")\n * public expect fun
DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n * \n * \n * Sorts a range in the array in-place.\n * \n
* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
* \n * @SinceKotlin("1.4")\n * public expect fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n * \n * \n
* Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to
their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex
the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than
zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n * \n * @SinceKotlin("1.4")\n * public fun <T : Comparable<T>> Array<out
T>.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n * \n * \n * sortWith(reverseOrder(), fromIndex,
toIndex)\n * \n * \n * \n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
* \n * @SinceKotlin("1.4")\n * public fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n * \n
* \n * sort(fromIndex, toIndex)\n * \n * \n * reverse(fromIndex, toIndex)\n * \n * \n * \n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n
* \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @SinceKotlin("1.4")\n * public fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit
{\n * \n * \n * sort(fromIndex, toIndex)\n * \n * \n * reverse(fromIndex, toIndex)\n * \n * \n * \n * Sorts elements of the array in the
specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n *
@param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to
sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
* \n * @SinceKotlin("1.4")\n * public fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n * \n
* \n * sort(fromIndex, toIndex)\n * \n * \n * reverse(fromIndex, toIndex)\n * \n * \n * \n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n
* \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
* \n * @SinceKotlin("1.4")\n * public fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n * \n
* \n * sort(fromIndex, toIndex)\n * \n * \n * reverse(fromIndex, toIndex)\n * \n * \n * \n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n
* \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size

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of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*\n@SinceKotlin("1.4")\npublic fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
sort(fromIndex, toIndex)\n  reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified
range in-place.\n
* The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of
the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic
fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n  sort(fromIndex, toIndex)\n
reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n *\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n * \n * The sort is _stable_. It means
that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of
the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this
array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int
= size): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n *\n@SinceKotlin("1.4")\npublic
fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n  return BooleanArray(size) { index -> this[index]
}\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n *\n@SinceKotlin("1.4")\npublic
fun Array<out Byte>.toByteArray(): ByteArray {\n  return ByteArray(size) { index
-> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Char>.toCharArray(): CharArray {\n  return CharArray(size) { index -> this[index]
}\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n *\n@SinceKotlin("1.4")\npublic
fun Array<out Double>.toDoubleArray(): DoubleArray {\n  return DoubleArray(size) { index -> this[index]
}\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n *\n@SinceKotlin("1.4")\npublic
fun Array<out Float>.toFloatArray(): FloatArray {\n  return FloatArray(size) { index -> this[index] }\n}\n\n/**\n *
Returns an array of Int containing all of the elements of this generic array.\n *\n@SinceKotlin("1.4")\npublic fun Array<out
Int>.toIntArray(): IntArray {\n  return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of
Long containing all of the elements of this generic array.\n *\n@SinceKotlin("1.4")\npublic fun Array<out Long>.toLongArray():
LongArray
{\n  return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the
elements of this generic array.\n *\n@SinceKotlin("1.4")\npublic fun Array<out Short>.toShortArray(): ShortArray {\n  return
ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements
of this primitive array.\n *\n@SinceKotlin("1.4")\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a
*typed* object array containing all of the elements of this primitive array.\n *\n@SinceKotlin("1.4")\npublic expect fun
ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a *typed* object array containing all of the elements
of this primitive array.\n *\n@SinceKotlin("1.4")\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a
*typed* object array containing all of the elements of this primitive array.\n *\n@SinceKotlin("1.4")\npublic expect fun
LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a *typed* object array containing all of the elements
of this primitive

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array.\n *\/\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n *\/\npublic expect fun DoubleArray.toTypedArray():
Array<Double>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*\/\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a *typed* object array
containing all of the elements of this primitive array.\n *\/\npublic expect fun CharArray.toTypedArray():
Array<Char>\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\/\npublic inline fun <T, K, V>
Array<out T>.associate(transform:
(T) -> Pair<K, V>): Map<K, V> {\n    val capacity = mapCapacity(size).coerceAtLeast(16)\n    return
associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value
pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would
have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order
of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n
*\/\npublic inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n    val capacity
= mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added
to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\/\npublic inline fun <K, V>
ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\/\npublic inline fun <K, V>
IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied
to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\/\npublic inline fun <K, V>
LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\/\npublic inline fun <K, V>
FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n    val
capacity = mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n *\/\npublic inline fun <K, V>
DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(size).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to

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elements of the given array.\n

\* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \* \n public inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n }\n \n /\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n \* \n public inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n

return associateTo(LinkedHashMap<K, V>(capacity), transform)\n }\n \n /\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n }\n \n /\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector]

the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <K> ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Byte>(capacity), keySelector)\n }\n \n /\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Short>(capacity), keySelector)\n }\n \n /\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)\n }\n \n /\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned

by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n \* \n public inline fun <K> LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Long>(capacity), keySelector)\n }\n \n /\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* \n

returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
```

FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
```

DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Double>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
```

BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given array indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
```

CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original array.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample


```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample


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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */
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*^public inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V):
Map<K, V> {\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return
associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map]
containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of
the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*^public inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V>
{\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*^public inline
fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have
the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the
entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*^public inline
fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*^public inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) ->
V): Map<K, V> {\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return
associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map]
containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of
the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*^public inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) ->
V): Map<K, V> {\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return
associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map]
containing the values provided by [valueTransform] and indexed by [keySelector] functions
applied to elements of the given array.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of
the
original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n
*^public inline
fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and

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value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given array\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n \*/\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination:

M, keySelector: (Boolean) -> K): M { \n for (element in this) { \n destination.put(keySelector(element), element)\n } \n return destination\n} \n \n \* Populates and returns the [destination] mutable map with key-value pairs, \n \* where key is provided by the [keySelector] function applied to each element of the given array \n \* and value is the element itself. \n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo
```

`public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M { \n for (element in this) { \n destination.put(keySelector(element), element)\n } \n return destination\n} \n \n * Populates and returns the [destination] mutable map with key-value pairs, \n * where key is provided by the [keySelector] function and \n * and value is provided by the [valueTransform] function applied to elements of the given array. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * @sample`

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
```

`public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M { \n for (element in this) { \n destination.put(keySelector(element), valueTransform(element))\n } \n return destination\n} \n \n * Populates and returns the [destination] mutable map with key-value pairs, \n * where key is provided by the [keySelector] function and \n * and value is provided by the [valueTransform] function applied to elements of the given array. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * @sample`

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
```

`public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M { \n for (element in this) { \n destination.put(keySelector(element), valueTransform(element))\n } \n return destination\n} \n \n * Populates and returns the [destination] mutable map with key-value pairs, \n * where key is provided by the [keySelector] function and \n * and value is provided by the [valueTransform] function applied to elements of the given array. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * @sample`

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
```

`public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M { \n for (element in this) { \n destination.put(keySelector(element), valueTransform(element))\n } \n return destination\n} \n \n * Populates and returns the [destination] mutable map with key-value pairs, \n * where key is provided by the [keySelector] function and \n * and value is provided by the [valueTransform] function applied to elements of the given array. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * @sample`

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
```

`public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M { \n for (element in this) { \n destination.put(keySelector(element), valueTransform(element))\n } \n return destination\n} \n \n * Populates and returns the [destination] mutable map with key-value pairs, \n * where key is provided by the [keySelector] function and \n * and value is provided by the [valueTransform] function applied to elements of the given array. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * @sample`

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform
```

`public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M { \n for (element in this) { \n destination.put(keySelector(element), valueTransform(element))\n } \n return destination\n} \n \n * Populates and returns the [destination] mutable map with key-value pairs, \n * where key is provided by the [keySelector] function and \n * and value is provided by the [valueTransform] function applied to elements of the given array. \n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map. \n * \n * @sample`

same key returned by [keySelector] the last one gets added

to the map.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\/npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\/npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\/npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination]
```

mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function and\n \* and value is provided by the [valueTransform] function applied to elements of the given array.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\/npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n
```

```
*\/npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *\/npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform]
```

function applied to each element of the given array.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *\/npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *\/npublic
```



```

inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K,
V>): M {
    for (element in this) {
        destination
        += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map. @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M :
MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map. @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M :
MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) ->
Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return
    destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map. @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M :
MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map. @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M :
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map. @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M :
MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) ->
Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return
    destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map. @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

\* Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array. @sample

samples.collections.Collections.Transformations.associateWith

```

@SinceKotlin("1.4")
public inline fun <K,
V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
    val result = LinkedHashMap<K,
V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array. @sample

samples.collections.Collections.Transformations.associateWith

```

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {
    val result = LinkedHashMap<Byte,
V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array. @sample

samples.collections.Collections.Transformations.associateWith

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {\n    val result = LinkedHashMap<Short,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector]
function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n *
The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {\n    val result = LinkedHashMap<Int,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {\n    val result = LinkedHashMap<Long,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {\n    val result = LinkedHashMap<Float,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n    val result =
LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n    val result =
LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n    val result = LinkedHashMap<Char,
V>(mapCapacity(size.coerceAtMost(128)).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map
with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by
the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the

```

```

former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Array<out\n
K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the\n
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element\n
itself and value is provided by the [valueSelector] function applied to\n
that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample\n
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>>\n
ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the\n
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element\n
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are\n
equal, the last one overwrites the former value in the map.\n * \n * @sample\n
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Short,\n
in V>> ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the\n
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element\n
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are\n
equal, the last one overwrites the former value in the map.\n * \n * @sample\n
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Int, in V>>\n
IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the\n
[destination] mutable map with key-value pairs\n
for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector]\n
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the\n
map.\n * \n * @sample\n
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Long, in V>>\n
LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the\n
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element\n
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are\n
equal, the last one overwrites the former value in the map.\n * \n * @sample\n
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Float, in V>>\n
FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the\n
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element\n
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are\n
equal, the last one overwrites the former value in the map.\n * \n * @sample\n
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Double, in V>>\n
DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {\n  for (element in this) {\n
destination.put(element,\n
valueSelector(element))\n  }\n  return destination\n}\n\n/**\n * Populates and returns the [destination] mutable\n
map with key-value pairs for each element of the given array,\n * where key is the element itself and value is

```

provided by the [valueSelector] function applied to that key.\n \* \n \* If any two elements are equal, the last one overwrites the former value in the map.\n \* \n \* @sample

```

samples.collections.Collections.Transformations.associateWithTo
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Boolean, in V>> BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n*/\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Char, in V>> CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n*/\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n*/\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n*/\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n*/\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n*/\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n*/\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n*/\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n*/\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n*/\n * Returns a new [HashSet] of all elements.\n */\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n*/\n * Returns a new [HashSet] of all elements.\n */\npublic fun ByteArray.toHashSet(): HashSet<Byte> {\n return toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n*/\n * Returns a new [HashSet] of all elements.\n */\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n return toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n*/\n * Returns a new [HashSet] of all elements.\n */\npublic fun IntArray.toHashSet(): HashSet<Int> {\n return toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n*/\n * Returns a new [HashSet] of all elements.\n */\npublic fun LongArray.toHashSet(): HashSet<Long> {\n return toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n*/\n * Returns a new [HashSet] of all elements.\n */\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n return toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n*/\n * Returns a new [HashSet] of all elements.\n */\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n return

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toCollection(HashSet<Double>(mapCapacity(size)))\n\n**\n
 * Returns a new [HashSet] of all elements.\n\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n
return toCollection(HashSet<Boolean>(mapCapacity(size)))\n\n**\n * Returns a new [HashSet] of all
elements.\n\npublic fun CharArray.toHashSet(): HashSet<Char> {\n return
toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n\n**\n * Returns a [List] containing all
elements.\n\npublic fun <T> Array<out T>.toList(): List<T> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n**\n * Returns a [List] containing all
elements.\n\npublic fun ByteArray.toList(): List<Byte> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n**\n * Returns a [List] containing all elements.\n
\npublic fun ShortArray.toList(): List<Short> {\n return when (size) {\n 0 ->
emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n**\n * Returns a [List]
containing all elements.\n\npublic fun IntArray.toList(): List<Int> {\n return when (size) {\n 0 ->
emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n**\n * Returns a [List]
containing all elements.\n\npublic fun LongArray.toList(): List<Long> {\n return when (size) {\n 0 ->
emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n**\n * Returns a [List]
containing all elements.\n\npublic fun FloatArray.toList(): List<Float> {\n return when (size) {\n 0 ->
emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n\n**\n * Returns a [List]
containing all elements.\n\npublic fun DoubleArray.toList(): List<Double> {\n return when (size) {\n 0 ->
emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n
}\n\n**\n * Returns a [List] containing all elements.\n\npublic fun BooleanArray.toList(): List<Boolean>
{\n return when (size) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n
}\n\n**\n * Returns a [List] containing all elements.\n\npublic fun CharArray.toList(): List<Char> {\n
return when (size) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n
}\n\n**\n * Returns a new [MutableList] filled with all elements of this array.\n\npublic fun <T> Array<out
T>.toMutableList(): MutableList<T> {\n return ArrayList(this.asCollection())\n\n**\n * Returns a new
[MutableList] filled with all elements of this array.\n\npublic fun ByteArray.toMutableList(): MutableList<Byte>
{\n val list = ArrayList<Byte>(size)\n for (item in this) list.add(item)\n return list\n\n**\n * Returns a new
[MutableList] filled with all elements of
this array.\n\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n val list =
ArrayList<Short>(size)\n for (item in this) list.add(item)\n return list\n\n**\n * Returns a new [MutableList]
filled with all elements of this array.\n\npublic fun IntArray.toMutableList(): MutableList<Int> {\n val list =
ArrayList<Int>(size)\n for (item in this) list.add(item)\n return list\n\n**\n * Returns a new [MutableList]
filled with all elements of this array.\n\npublic fun LongArray.toMutableList(): MutableList<Long> {\n val list
= ArrayList<Long>(size)\n for (item in this) list.add(item)\n return list\n\n**\n * Returns a new
[MutableList] filled with all elements of this array.\n\npublic fun FloatArray.toMutableList():
MutableList<Float> {\n val list = ArrayList<Float>(size)\n for (item in this) list.add(item)\n return
list\n\n**\n * Returns a new [MutableList] filled with all elements of this array.\n\npublic fun
DoubleArray.toMutableList():
MutableList<Double> {\n val list = ArrayList<Double>(size)\n for (item in this) list.add(item)\n return
list\n\n**\n * Returns a new [MutableList] filled with all elements of this array.\n\npublic fun
BooleanArray.toMutableList(): MutableList<Boolean> {\n val list = ArrayList<Boolean>(size)\n for (item in
this) list.add(item)\n return list\n\n**\n * Returns a new [MutableList] filled with all elements of this array.\n
\npublic fun CharArray.toMutableList(): MutableList<Char> {\n val list = ArrayList<Char>(size)\n for (item
in this) list.add(item)\n return list\n\n**\n * Returns a [Set] of all elements.\n\n * \n * The returned set preserves
the element iteration order of the original array.\n\npublic fun <T> Array<out T>.toSet(): Set<T> {\n return
when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n\n**\n * Returns a [Set] of

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    all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
ByteArray.toSet(): Set<Byte> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -
-> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *
\n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toSet():
Set<Short> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n *
\n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toSet():
Set<Int> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns
a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n
*/\npublic fun LongArray.toSet(): Set<Long> {\n    return when (size) {\n        0 -> emptySet()\n        1 ->
setOf(this[0])\n        else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a
[Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic
fun FloatArray.toSet(): Set<Float> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n
else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all
elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
DoubleArray.toSet(): Set<Double> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n
else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n
* \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toSet():
Set<Boolean> {\n    return when (size) {\n        0 ->
emptySet()\n        1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n
    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the
original array.\n */\npublic fun CharArray.toSet(): Set<Char> {\n    return when (size) {\n        0 -> emptySet()\n
1 -> setOf(this[0])\n        else -> toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n    }\n}\n\n/**\n
 * Returns a single list of all elements yielded from results of [transform] function being invoked on
each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*/\npublic inline fun <T, R> Array<out T>.flatMap(transform: (T)
-> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of
all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ShortArray.flatMap(transform:
(Short) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n
*/\npublic inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n    return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of
[transform] function being invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> LongArray.flatMap(transform:
(Long) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element

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of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun
<R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> CharArray.flatMap(transform:
(Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of
all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMap\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Array<out T>.flatMapIndexed(transform:
(index: Int, T) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n *
Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n *
and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all
elements yielded from results of [transform] function being invoked on each element\n * and its index in the
original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from

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results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n
return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Byte) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Short) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,  
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from  
results of [transform] function being invoked on each element\n * and its index in the original array, to the given  
[destination].\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
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c  
inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Int) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of  
[transform] function being invoked on each element\n * and its index in the original array, to the given  
[destination].\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Long) -> Iterable<R>): C {\n    var index  
= 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on  
each element\n * and its index in the original array, to the given [destination].\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Float) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,  
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from  
results of [transform] function being invoked on each element\n * and its index in the original array, to the  
given [destination].\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index:  
Int, Double) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,  
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from  
results of [transform] function being invoked on each element\n * and its index in the original array, to the given  
[destination].\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination:  
C, transform: (index: Int, Boolean) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =  
transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all  
elements yielded from results of [transform] function being invoked on each element\n * and its index in the original  
array, to the given [destination].\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,  
Char) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,  
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
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results of [transform]

```
function being invoked on each element\n * and its index in the original array, to the given [destination].\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:\n(index: Int, T) -> Sequence<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =\ntransform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n*\n * Appends all\n elements yielded from results of [transform] function being invoked on each element of original array, to the given\n [destination].\n\n*\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,\ntransform: (T) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n*\n * Appends all elements yielded from results of\n [transform] function being invoked on each element of original array, to the given [destination].\n\n*\npublic inline\n fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C\n {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return\n destination\n}\n\n*\n * Appends all elements yielded from results of [transform] function being invoked on each\n element of original array, to the given [destination].\n\n*\npublic inline fun <R, C : MutableCollection<in R>>\n ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n    for (element in this) {\n        val\n list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n*\n * Appends all\n elements yielded from results of [transform] function being invoked\n on each element of original array, to the given [destination].\n\n*\npublic inline fun <R, C : MutableCollection<in\n R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {\n    for (element in this) {\n        val\n list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n*\n * Appends all\n elements yielded from results of [transform] function being invoked on each element of original array, to the given\n [destination].\n\n*\npublic inline fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C,\ntransform: (Long) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n*\n * Appends all elements yielded from results of\n [transform] function being invoked on each element of original array, to the given [destination].\n\n*\npublic inline\n fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C,\ntransform: (Float) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n*\n * Appends all elements yielded from results of\n [transform] function being invoked on each element of original array, to the given [destination].\n\n*\npublic inline\n fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C, transform: (Double) ->\n Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n*\n * Appends all elements yielded from results of [transform] function being\n invoked on each element of original array, to the given [destination].\n\n*\npublic inline fun <R, C :\n MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n*\n * Appends all elements yielded from results of [transform] function being\n invoked on each element of original array, to the given [destination].\n\n*\npublic inline fun <R, C :\n MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n    for\n (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return\n destination\n}\n\n*\n * Appends all elements yielded from results of [transform] function being invoked on each\n element of original array, to the given [destination].\n\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <T, R, C :\n MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n    for\n (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n}
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        } \n return destination \n } \n \n /** \n * Groups elements of the original array by the key returned by the given
[keySelector] function \n * applied to each element and returns a map where each group key is associated with a list
of corresponding elements. \n * \n * The returned map preserves the entry iteration order of the keys produced from
the original array. \n * \n * @sample samples.collections.Collections.Transformations.groupBy \n */ \n public inline
fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> { \n return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector) \n } \n \n /** \n * Groups elements of the original
array by the key returned by the given [keySelector] function \n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements. \n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array. \n * \n * @sample
samples.collections.Collections.Transformations.groupBy \n */ \n public inline fun <K>
ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> { \n return
groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector) \n } \n \n /** \n * Groups elements of the original
array by the key returned by the given [keySelector] function \n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements. \n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array. \n * \n * @sample
samples.collections.Collections.Transformations.groupBy \n */ \n public inline fun <K>
ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> { \n return
groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector) \n } \n \n /** \n * Groups elements of the
original array by the key returned by the given [keySelector] function \n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements. \n
* \n * The returned map preserves the entry iteration order of the keys produced from the original array. \n * \n *
@sample samples.collections.Collections.Transformations.groupBy \n */ \n public inline fun <K>
IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> { \n return groupByTo(LinkedHashMap<K,
MutableList<Int>>(), keySelector) \n } \n \n /** \n * Groups elements of the original array by the key returned by the
given [keySelector] function \n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements. \n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array. \n * \n * @sample samples.collections.Collections.Transformations.groupBy \n */ \n public
inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> { \n return
groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector) \n } \n \n /** \n * Groups elements of the
original array by the key returned by the
given [keySelector] function \n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements. \n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array. \n * \n * @sample samples.collections.Collections.Transformations.groupBy \n */ \n public
inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> { \n return
groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector) \n } \n \n /** \n * Groups elements of the
original array by the key returned by the given [keySelector] function \n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements. \n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array. \n * \n * @sample
samples.collections.Collections.Transformations.groupBy \n */ \n public inline fun <K>
DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>>
{ \n return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector) \n } \n \n /** \n * Groups
elements of the original array by the key returned by the given [keySelector] function \n * applied to each element
and returns a map where each group key is associated with a list of corresponding elements. \n * \n * The returned
map preserves the entry iteration order of the keys produced from the original array. \n * \n * @sample
samples.collections.Collections.Transformations.groupBy \n */ \n public inline fun <K>
BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> { \n return
groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector) \n } \n \n /** \n * Groups elements of the
original array by the key returned by the given [keySelector] function \n * applied to each element and returns a map

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where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original

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array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n * \n * public inline fun <K>  
CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K,  
MutableList<Char>>(), keySelector)\n}\n * \n * Groups values returned by the [valueTransform] function applied  
to each element of the original array\n * by the key returned by the given [keySelector] function applied to the  
element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The  
returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample  
samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * public inline fun <T, K, V>  
Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return  
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n * \n * Groups values  
returned by the [valueTransform]
```

function applied to each element of the original array\n \* by the key returned by the given [keySelector] function  
applied to the element\n \* and returns a map where each group key is associated with a list of corresponding  
values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

```
samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * public inline fun  
<K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n  
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n * \n * Groups  
values returned by the [valueTransform] function applied to each element of the original array\n * by the key  
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is  
associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order  
of the keys produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * public inline fun <K, V>  
ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n return  
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n * \n * Groups values  
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by  
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated  
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys  
produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * public inline fun <K, V>  
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n return  
groupByTo(LinkedHashMap<K, MutableList<V>>(),  
keySelector, valueTransform)\n}\n * \n * Groups values returned by the [valueTransform] function applied to  
each element of the original array\n * by the key returned by the given [keySelector] function applied to the  
element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The  
returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * public inline fun <K, V>  
LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n return  
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n * \n * Groups values  
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by  
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated  
with
```

a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced  
from the original array.\n \* \n \* @sample

```
samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n * public inline fun <K, V>  
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n return  
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n * \n * Groups values  
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
```

the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

```

samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V>
DoubleArray.groupBy(keySelector: (Double)
-> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform]
function applied to each element of the original array\n * by the key returned by the given [keySelector]
function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun
<K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>>>
{\n  return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n *
Groups values returned by the [valueTransform] function applied to each element of the original array\n * by
the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a
list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V> CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>>> {\n  return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *^\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<T>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *^\npublic inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Byte>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *^\npublic inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Short>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *^\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<Int>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with

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a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample

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samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in
this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Long>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key
returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each
group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n *
@sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in
K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {\n for (element
in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Float>() }\n
list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key
returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each
group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n *
@sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M
: MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) ->
K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<Double>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector:
(Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n
* Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M,
keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n
* Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the
key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each
group key associated with a list of corresponding values.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination:
M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key =
keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination:
M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key =
keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K,
valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>()
}\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K,
valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the
key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each
group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K,
valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector:
(Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination:
M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n val key =
keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K,
valueTransform: (Boolean) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<V>()
}\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K,

```

```

valueTransform: (Char) -> V): M { \n  for (element in this) { \n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Creates a [Grouping] source from an array to be used later with one of group-and-fold
operations\n
 * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n *\n@SinceKotlin("1.1")\npublic inline fun <T, K>
Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> { \n  return object : Grouping<T,
K> { \n    override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n    override fun
keyOf(element: T): K = keySelector(element)\n  } }\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n *\npublic inline fun <T, R> Array<out T>.map(transform:
(T) -> R): List<R> { \n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> { \n  return
mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> ShortArray.map(transform:
(Short) -> R): List<R> { \n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> IntArray.map(transform: (Int) ->
R): List<R> { \n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results
of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> LongArray.map(transform: (Long) -> R): List<R> { \n  return
mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> FloatArray.map(transform: (Float)
-> R): List<R> { \n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> DoubleArray.map(transform:
(Double) -> R): List<R> { \n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> { \n  return
mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\npublic inline fun <R> CharArray.map(transform: (Char)
-> R): List<R> { \n  return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element and its index in the original array.\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n *\npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index:
Int, T) -> R): List<R> { \n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list
containing the results
of applying the given [transform] function\n * to each element and its index in the original array.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n *\npublic inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -
> R): List<R> { \n  return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing

```



the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}
```

Returns a list containing only the non-null results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(0), transform)
}
```

Applies the given [transform] function to each element and its index in the original array and appends only the non-null results to the given [destination].

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
    var index = 0
    for (item in this) destination.add(transform(index++, item))
    return destination
}
```

Applies the given [transform] function to each element and its index in the original array and appends the results to the given [destination].

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) ->
R): C {\n  var index = 0\n  for (item in this)\n    destination.add(transform(index++, item))\n  return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the
original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the
index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform:
(index: Int, Short) -> R): C {\n  var index = 0\n  for (item in this)\n    destination.add(transform(index++,
item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in
the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index:
Int, Int) -> R): C {\n  var index = 0\n  for (item in this)\n    destination.add(transform(index++,
item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in
the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform:
(index: Int, Long) -> R): C {\n  var index = 0\n  for (item in this)\n    destination.add(transform(index++,
item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in
the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\npublic inline fun <R, C : MutableCollection<in
R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index
of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic
inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int,
Boolean) -> R): C {\n  var index = 0\n  for (item in this)\n    destination.add(transform(index++, item))\n
return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original
array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of
an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic
inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int,
Char) -> R): C {\n  var index = 0\n  for (item in this)\n    destination.add(transform(index++, item))\n  return
destination\n}\n\n/**\n * Returns a list containing only the non-null results
of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any> Array<out
T>.mapNotNull(transform: (T) -> R?): List<R> {\n  return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n *
Applies the given [transform] function to each element in the original array\n * and appends only the non-null
results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n  forEach { element -> transform(element)?.let {
destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each element of
the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C :
MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n  for (item in this)\n

```

```

destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R,
C : MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R,
C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> IntArray.mapTo(destination:
C, transform: (Int) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n
for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean)
-> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies
the given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C,
transform: (Char) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original
array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T>
Array<out T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
index of that element and the element itself.\n */\npublic fun ByteArray.withIndex():
Iterable<IndexedValue<Byte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n */\npublic fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n return
IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n
* into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun
IntArray.withIndex():
Iterable<IndexedValue<Int>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that
wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n */\npublic fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n return
IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n
* into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun
FloatArray.withIndex(): Iterable<IndexedValue<Float>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
index of that element and the element itself.\n */\npublic fun DoubleArray.withIndex():
Iterable<IndexedValue<Double>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps

```

each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {
    return IndexingIterable { iterator() }
}

```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```

public fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

```

Returns a list containing only distinct elements from the given array.

Among equal elements of the given array, only the first one will be present in the resulting list. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun <T> Array<out T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array. The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun ByteArray.distinct(): List<Byte> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun ShortArray.distinct(): List<Short> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array. The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun IntArray.distinct(): List<Int> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array. The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun LongArray.distinct(): List<Long> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun FloatArray.distinct(): List<Float> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun DoubleArray.distinct(): List<Double> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array. The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun BooleanArray.distinct(): List<Boolean> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only distinct elements from the given array. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public fun CharArray.distinct(): List<Char> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. Among elements of the given array with equal keys, only the first one will be present in the resulting list. The elements in the resulting list are in the same order as they were in the source array.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy
public inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key)) list.add(e)
    }
    return list
}

```

Returns a list containing only elements from the given array having distinct keys returned by the given [selector] function. The elements in the resulting list are in the same order as they were in the source array.

```

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy
public

```

```

inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Byte>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\n\npublic inline fun <K>
ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Short>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given
[selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\n\npublic inline
fun <K> IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Int>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\n\npublic inline fun <K>
LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Long>()\n    for (e in this) {\n        val key
= selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing
only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The
elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\n\npublic inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Float>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\n\npublic inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n    val set =
HashSet<K>()\n    val list = ArrayList<Double>()\n    for (e in this) {\n        val key = selector(e)\n        if
(set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the
given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting
list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\n\npublic inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Boolean>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the
given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting
list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\n\npublic inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Char>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\n\npublic infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n}

```

`return set`  
Returns a set containing all elements that are contained by both this array and the specified collection.  
The returned set preserves the element iteration order of the original array.  
To get a set containing all elements that are contained at least in one of these collections use `[union]`.  
`public infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte>` {  
`val set = this.toMutableSet()`  
`set.retainAll(other)`  
`return set`  
Returns a set containing all elements that are contained by both this array and the specified collection.  
The returned set preserves the element iteration order of the original array.  
To get a set containing all elements that are contained at least in one of these collections use `[union]`.  
`public infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short>` {  
`val set = this.toMutableSet()`  
`set.retainAll(other)`  
`return set`  
Returns a set containing all elements that are contained by both this array and the specified collection.  
The returned set preserves the element iteration order of the original array.  
To get a set containing all elements that are contained at least in one of these collections use `[union]`.  
`public infix fun IntArray.intersect(other: Iterable<Int>): Set<Int>` {  
`val set = this.toMutableSet()`  
`set.retainAll(other)`  
`return set`  
Returns a set containing all elements that are contained by both this array and the specified collection.  
The returned set preserves the element iteration order of the original array.  
To get a set containing all elements that are contained at least in one of these collections use `[union]`.  
`public infix fun LongArray.intersect(other: Iterable<Long>): Set<Long>` {  
`val set = this.toMutableSet()`  
`set.retainAll(other)`  
`return set`  
Returns a set containing all elements that are contained by both this array and the specified collection.  
The returned set preserves the element iteration order of the original array.  
To get a set containing all elements that are contained at least in one of these collections use `[union]`.  
`public infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float>` {  
`val set = this.toMutableSet()`  
`set.retainAll(other)`  
`return set`  
Returns a set containing all elements that are contained by both this array and the specified collection.  
The returned set preserves the element iteration order of the original array.  
To get a set containing all elements that are contained at least in one of these collections use `[union]`.  
`public infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double>` {  
`val set = this.toMutableSet()`  
`set.retainAll(other)`  
`return set`  
Returns a set containing all elements that are contained by both this array and the specified collection.  
The returned set preserves the element iteration order of the original array.  
To get a set containing all elements that are contained at least in one of these collections use `[union]`.  
`public infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean>` {  
`val set = this.toMutableSet()`  
`set.retainAll(other)`  
`return set`  
Returns a set containing all elements that are contained by both this array and the specified collection.  
The returned set preserves the element iteration order of the original array.  
To get a set containing all elements that are contained at least in one of these collections use `[union]`.  
`public infix fun CharArray.intersect(other: Iterable<Char>): Set<Char>` {  
`val set = this.toMutableSet()`  
`set.retainAll(other)`  
`return set`  
Returns a set containing all elements that are contained by this array and not contained by the specified collection.  
The returned set preserves the element iteration order of the original array.  
`public infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T>` {  
`val set = this.toMutableSet()`  
`set.removeAll(other)`  
`return set`  
Returns a set containing all elements that are contained by this array and not contained by the specified collection.  
The returned set preserves the element iteration order of the original array.  
`public infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte>` {  
`val set = this.toMutableSet()`  
`set.removeAll(other)`  
`return set`  
Returns a set containing all elements that are contained by this array and not contained by the specified collection.  
The returned set preserves the element iteration order of the original array.  
`public infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short>` {  
`val set = this.toMutableSet()`  
`set.removeAll(other)`  
`return set`  
Returns a set containing all elements that are contained by this array and not contained by the specified collection.  
The returned set preserves the element iteration order of the original array.  
`public infix fun IntArray.subtract(other: Iterable<Int>): Set<Int>` {  
`val set = this.toMutableSet()`  
`set.removeAll(other)`

```

return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by
the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n
*/\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n    val set = this.toMutableSet()\n
set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this
array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of
the original array.\n */\npublic infix fun FloatArray.subtract(other:
Iterable<Float>): Set<Float> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n
* Returns a set containing all elements that are contained by this array and not contained by the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun
DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n    val set = this.toMutableSet()\n
set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this
array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of
the original array.\n */\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {\n    val
set = this.toMutableSet()\n    set.removeAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements
that are contained by this array and not contained by the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun
CharArray.subtract(other: Iterable<Char>): Set<Char> {\n    val set = this.toMutableSet()\n    set.removeAll(other)\n
return set\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n *
The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out
T>.toMutableSet(): MutableSet<T> {\n    return toCollection(LinkedHashSet<T>(mapCapacity(size)))\n}\n\n/**\n
* Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set
preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet():
MutableSet<Byte> {\n    return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a
new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves
the element iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short>
{\n    return toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet]
containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order
of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n    return
toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n    return
toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic
fun FloatArray.toMutableSet(): MutableSet<Float> {\n    return
toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n    return
toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing
all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the
original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n    return
toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing
all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the
original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n
return toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a set
containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order
of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the
order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use

```

```

[intersect].\n * \n public infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements
from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those
elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n *
\n * To get a set containing all elements that are contained in
both collections use [intersect].\n * \n public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n    val
set = this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct
elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n
* Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other]
collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n
* \n public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n    val set = this.toMutableSet()\n
set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n
* \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other]
collection that are unique are iterated in the end\n * in
the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections
use [intersect].\n * \n public infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements
from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those
elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n
* \n * To get a set containing all elements that are contained in both collections use [intersect].\n * \n public infix
fun LongArray.union(other: Iterable<Long>): Set<Long> {\n    val set = this.toMutableSet()\n    set.addAll(other)\n
return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set
preserves the element iteration order of the original
array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the
[other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n
* \n public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n    val set = this.toMutableSet()\n
set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n
* \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other]
collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set
containing all elements that are contained in both collections use [intersect].\n * \n public infix fun
DoubleArray.union(other: Iterable<Double>): Set<Double> {\n    val set = this.toMutableSet()\n    set.addAll(other)\n
return set\n}\n\n/**\n * Returns a set containing all distinct
elements from both collections.\n * \n * The returned set preserves the element iteration order of the original
array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the
[other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n
* \n public infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements
from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those
elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n
* \n * To get a set containing all elements that are contained in both collections use [intersect].\n * \n public infix
fun CharArray.union(other: Iterable<Char>): Set<Char> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n * \n public inline fun <T> Array<out
T>.all(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n * \n public inline fun ByteArray.all(predicate: (Byte) -> Boolean):
Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true`
if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n

```



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*\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n  for (element in this) if
(!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if all elements
match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*\npublic inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return
false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*\npublic inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return false\n
return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {\n  for (element in this) if
(!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*\npublic inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n  for (element in this) if
(!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*\npublic inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element))
return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*\npublic inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return false\n
return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun <T> Array<out T>.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if
array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun ByteArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n *
\n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun ShortArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n *
\n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun IntArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n *
\n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun LongArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n *
\n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun FloatArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n *
\n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun DoubleArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n *
\n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun BooleanArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n *
\n * @sample samples.collections.Collections.Aggregates.any\n
*\npublic fun CharArray.any(): Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *
\n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\npublic inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n
return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\npublic inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
\n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\npublic inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n
return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample

```

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samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline
fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun
FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun
DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun
BooleanArray.any(predicate:
( Boolean) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharArray.any(predicate:
(Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Array<out T>.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n *
\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the
number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n *
\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the
number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of elements in this array.\n *
\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n    return size\n}\n\n/**\n * Returns
the number of elements in this array.\n * \n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n * \n */\npublic inline fun
<T> Array<out T>.count(predicate: (T) -> Boolean): Int
{\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns
the number of elements matching the given [predicate].\n * \n */\npublic inline fun ByteArray.count(predicate: (Byte) ->
Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n * \n */\npublic inline fun
ShortArray.count(predicate: (Short) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n */\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n    var count = 0\n
for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n * \n */\npublic inline fun LongArray.count(predicate: (Long) -> Boolean): Int
{\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns
the number of elements matching the given [predicate].\n * \n */\npublic inline fun FloatArray.count(predicate: (Float) -
> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n * \n */\npublic inline fun
DoubleArray.count(predicate: (Double) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n */\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {\n    var count = 0\n
for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n * \n */\npublic inline fun CharArray.count(predicate: (Char) ->

```

```

Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

fun fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, Byte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, Short) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, Int) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, Long) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, Float) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, Double) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, Boolean) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun fold(initial: R, operation: (acc: R, Char) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

```

```

accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\npublic inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n
var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++,
accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element with its index in the
original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n *\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R,
Byte) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator =
operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its
index in the original array.\n * \n * Returns the specified [initial] value if the
array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n *\npublic inline fun <R>
ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n var index = 0\n var
accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\npublic inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {\n
var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++,
accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element with its index in the
original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n *\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R,
Long) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator =
operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n
* @param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n *\npublic inline fun <R> FloatArray.foldIndexed(initial: R,
operation: (index: Int, acc: R, Float) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in
this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n *
* \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n *\npublic inline fun <R> DoubleArray.foldIndexed(initial: R,
operation: (index: Int, acc: R, Double) -> R): R {\n var index
= 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left
to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n

```

```

*public inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

*public inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index++, accumulator, element)
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

*public inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

*public inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

*public inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

*public inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

*public inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

*public inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.

Returns the specified [initial] value if the array is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

```

*public inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

```

>= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param\n [operation] function that takes an element and current accumulator value, and calculates the next accumulator\n value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {\n  var\n index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--),\n accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified\n [initial] value if the array is empty.\n * \n * @param [operation] function\n that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline\n fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n  var index = lastIndex\n  var\n accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right\n to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the\n specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an\n element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R\n {\n  var index = lastIndex\n  var accumulator = initial\n  while (index\n >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return\n accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to\n left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the\n specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an\n element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {\n  var\n index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index,\n get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with\n [initial] value and applying [operation] from right to left\n * to each element with\n its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array\n is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current\n accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>\n ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n  var index = lastIndex\n  var\n accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying\n [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the\n specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the\n index of an element, the element itself\n * and current accumulator\n value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRightIndexed(initial: R,\n operation: (index: Int, Int, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index\n >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return\n accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to\n left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the\n specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an\n element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n  var\n index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return\n accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to\n left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the

```

```

specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {\n
var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index,
get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left\n * to each element with its index
in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current
accumulator value, and calculates the next accumulator value.\n *\npublic inline fun <R>
DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {\n var index =
lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value,
and calculates the next accumulator value.\n *\npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R,
operation: (index: Int, Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while
(index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*\npublic inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n
var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n *\npublic inline fun <T> Array<out
T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given
[action] on each element.\n *\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n for (element
in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n *\npublic inline fun
ShortArray.forEach(action: (Short) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n *\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n *\npublic inline fun
LongArray.forEach(action: (Long) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n *\npublic inline fun FloatArray.forEach(action: (Float) -> Unit):
Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n
*\npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n for (element in this)
action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n *\npublic inline fun
BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n *\npublic inline fun CharArray.forEach(action: (Char) -> Unit):
Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing
sequential index with the element.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n *\npublic inline fun <T> Array<out T>.forEachIndexed(action:
(index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs
the given [action] on each element, providing sequential index with the element.\n * @param [action] function that
takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline
fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs

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the action on the element.\n */\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit):
Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n
 * @param [action] function that takes the index of an element and the element itself\n * and performs the action on
the element.\n */\npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n    var index =
0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing
sequential index with the element.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n */\npublic inline fun LongArray.forEachIndexed(action: (index:
Int, Long) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the
given [action] on each element, providing sequential index with the element.\n * @param [action] function that
takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline
fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit):
Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun
DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n */\npublic inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) ->
Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action]
on each element, providing sequential index with the element.\n * @param [action] function
that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic
inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n    var index = 0\n    for (item in
this) action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Double>.max(): Double? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Float>.max(): Float? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>>
Array<out T>.max(): T? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun ByteArray.max(): Byte? {\n    return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.\", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun ShortArray.max(): Short? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun IntArray.max(): Int? {\n    return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.\", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun LongArray.max(): Long? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.\", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun FloatArray.max(): Float? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun DoubleArray.max(): Double? {\n    return

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maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun CharArray.max(): Char? {\n    return maxOrNull()\n}\n\n@Deprecated("Use
maxByOrNull instead.\", ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Array<out
T>.maxBy(selector: (T) -> R): T? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated("Use
maxByOrNull instead.\", ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince
= "1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>>
ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated("Use
maxByOrNull instead.\", ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>>
ShortArray.maxBy(selector: (Short) -> R): Short? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated("Use
maxByOrNull instead.\", ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>>
IntArray.maxBy(selector: (Int) -> R): Int? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated("Use
maxByOrNull instead.\", ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince
= "1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>>
LongArray.maxBy(selector: (Long) -> R): Long? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated("Use
maxByOrNull instead.\", ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>>
FloatArray.maxBy(selector: (Float) -> R): Float? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated("Use
maxByOrNull instead.\", ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =
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maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>>
BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n    return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R):
Char? {\n    return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\n * \n * public inline fun <T, R :
Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxVal =
selector(maxElem)\n    for (i in 1..lastIndex)
{\n        val e = this[i]\n        val v = selector(e)\n        if (maxVal < v) {\n            maxElem = e\n            maxVal
= v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given
function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\n * \n * public inline fun <R :
Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxVal =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxVal < v)
{\n            maxElem = e\n            maxVal = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\n * \n * public
inline fun <R : Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {\n    if (isEmpty())

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return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n
var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if
(maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n *
Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex
== 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n
val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n
return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are
no elements.\n * \n * @sample samples.collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) ->
R): Long? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n
}\n    return maxElem\n}\n\n/**\n * Returns the first element yielding
the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)
{\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> DoubleArray.maxByOrNull(selector: (Double) -> R): Double? {\n    if (isEmpty()) return
null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var
maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if
(maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest
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samples.collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n    if (isEmpty()) return
null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var
maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if
(maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest
value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Aggregates.maxByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)
{\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the largest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException
if the array is empty.\n
*\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution
ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <T> Array<out T>.maxOf(selector: (T) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for

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(i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n } return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte)
-> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    } return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    } return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Double):
Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    } return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException\n * if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    } return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Double): Double\n    {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    } return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    } return
maxValue\n}\n\n/**\n * Returns the

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largest value among all values produced by [selector] function  
 \* applied to each element in the array.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the array is empty.

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * If any of values produced by [selector] function is `NaN`, the returned result is
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array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
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array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex)
{\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float):
Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
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Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i
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maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
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array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float):
Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
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`NaN`.\n * @throws NoSuchElementException if the
array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n        var maxValue = selector(this[0])\n        for (i in 1..lastIndex) {\n            val v = selector(this[i])\n            maxValue =
maxOf(maxValue, v)\n        }\n        return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n        var maxValue = selector(this[0])\n        for (i
in 1..lastIndex) {\n            val v = selector(this[i])\n            maxValue = maxOf(maxValue, v)\n        }\n        return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n        var maxValue = selector(this[0])\n        for (i
in 1..lastIndex) {\n            val v = selector(this[i])\n            maxValue = maxOf(maxValue, v)\n        }\n        return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.maxOf(selector: (Boolean) -> Float): Float {\n    if (isEmpty()) throw
NoSuchElementException()\n        var maxValue = selector(this[0])\n        for (i in 1..lastIndex) {\n            val v =
selector(this[i])\n            maxValue = maxOf(maxValue, v)\n        }\n        return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
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*/\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float):
Float {\n    if (isEmpty()) throw NoSuchElementException()\n        var maxValue = selector(this[0])\n        for (i in
1..lastIndex) {\n            val v = selector(this[i])\n            maxValue =
maxOf(maxValue, v)\n        }\n        return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.maxOf(selector: (T) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n        var maxValue =
selector(this[0])\n        for (i in 1..lastIndex) {\n            val v = selector(this[i])\n            if (maxValue < v) {\n
maxValue = v\n            }\n        }\n        return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.maxOf(selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n        var
maxValue = selector(this[0])\n        for (i in 1..lastIndex) {\n            val v = selector(this[i])\n            if (maxValue < v) {\n
maxValue = v\n            }\n        }\n        return maxValue\n}\n\n/**\n * Returns the largest value among all values

```

```

produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOf(selector: (Short) -> R): R {\n if (isEmpty())
throw NoSuchElementException()\n var maxVAlue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxVAlue < v) {\n maxVAlue = v\n }\n }\n return maxVAlue\n}\n\n**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxVAlue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxVAlue < v) {\n
maxVAlue = v\n }\n }\n return maxVAlue\n}\n\n**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxVAlue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxVAlue < v) {\n
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produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOf(selector:
(Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxVAlue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxVAlue < v) {\n maxVAlue = v\n }\n }\n
return maxVAlue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxVAlue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxVAlue < v) {\n
maxVAlue = v\n }\n }\n return maxVAlue\n}\n\n**\n * Returns the largest
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxVAlue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxVAlue < v) {\n
maxVAlue = v\n }\n }\n return maxVAlue\n}\n\n**\n * Returns the largest value among all values
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharArray.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxVAlue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =

```

selector(this[i])\n if (maxValue < v) {\n maxValue = v\n } \n } \n return maxValue\n}\n\n\*\*\n \* Returns the largest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOrNull(selector: (T) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOrNull(selector: (Byte) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOrNull(selector: (Short) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOrNull(selector: (Int) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOrNull(selector: (Long) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```

inline fun DoubleArray.maxOrNull(selector: (Double) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

* Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
* ByLambdaReturnType
* kotlin.internal.InlineOnly
public inline fun BooleanArray.maxOrNull(selector:
(Boolean) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return
maxValue
}

* Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
* ByLambdaReturnType
* kotlin.internal.InlineOnly
public inline fun CharArray.maxOrNull(selector: (Char) ->
Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

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`NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
* ByLambdaReturnType
* kotlin.internal.InlineOnly
public
inline fun <T> Array<out T>.maxOrNull(selector: (T) -> Float): Float? {
    if (isEmpty()) return null
    var
maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue =
maxOf(maxValue, v)
    }
    return maxValue
}

* Returns the largest value among all values produced
by [selector] function
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values produced by [selector] function is `NaN`, the returned result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
* ByLambdaReturnType
* kotlin.internal.InlineOnly
public inline fun ByteArray.maxOrNull(selector: (Byte) ->
Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex)
{
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

* Returns the largest value among all values produced by [selector] function
* applied to each element in the array
or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
* ByLambdaReturnType
* kotlin.internal.InlineOnly
public inline fun ShortArray.maxOrNull(selector: (Short) -
> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

* Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null`
if there are no elements.
* If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

* Since Kotlin("1.4")
* OptIn(kotlin.experimental.ExperimentalTypeInference::class)
* OverloadResolution
* ByLambdaReturnType
* kotlin.internal.InlineOnly
public inline fun IntArray.maxOrNull(selector: (Int) ->
Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

* Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null`
if there are no elements.
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`NaN`.

```



```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOrNull(selector: (Long)\n-> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float)\n-> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by\n [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector:\n(Double) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\n    inline fun BooleanArray.maxOrNull(selector: (Boolean) -> Float): Float? {\n        if (isEmpty()) return null\n        var\n        maxValue = selector(this[0])\n        for (i in 1..lastIndex) {\n            val v = selector(this[i])\n            maxValue =\n            maxOf(maxValue, v)\n        }\n        return maxValue\n}\n\n/**\n * Returns the largest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue\n        = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out\nT>.maxOrNull(selector: (T) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for\n    (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\n    inline fun <R : Comparable<R>> ByteArray.maxOrNull(selector: (Byte) -> R): R? {\n        if (isEmpty()) return\n        null\n        var maxValue = selector(this[0])\n        for (i in 1..lastIndex) {\n            val v = selector(this[i])\n            if\n            (maxValue < v) {\n                maxValue = v\n            }\n        }\n        return maxValue\n}\n\n/**\n * Returns the largest value\n among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no\n elements.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOfOrNull(selector: (Short) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOfOrNull(selector: (Int) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOfOrNull(selector:
(Long) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n
val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOfOrNull(selector: (Float) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOfOrNull(selector: (Double) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOfOrNull(selector: (Boolean) -> R): R? {\n  if (isEmpty())
return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.maxOfOrNull(selector: (Char) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied
to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out

```

```

T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

```

\* Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.  
 @throws NoSuchElementException if the array is empty.

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolutionByLambdaReturnType \n @kotlin.internal.InlineOnly \n public
inline fun <R> ByteArray.maxOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

```

\* Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.  
 @throws NoSuchElementException if the array is empty.

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolutionByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

```

\* Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.  
 @throws NoSuchElementException if the array is empty.

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolutionByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> IntArray.maxOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

```

\* Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.  
 @throws NoSuchElementException if the array is empty.

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolutionByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> LongArray.maxOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

```

\* Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.  
 @throws NoSuchElementException if the array is empty.

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolutionByLambdaReturnType \n @kotlin.internal.InlineOnly \n public
inline fun <R> FloatArray.maxOfWith(comparator: Comparator<in R>, selector: (Float) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

```

\* Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.  
 @throws NoSuchElementException if the array is empty.

```

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolutionByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> DoubleArray.maxOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R {
    if (isEmpty()) throw NoSuchElementException()

```

```

    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
@throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> BooleanArray.maxOfWith(comparator: Comparator<in R>, selector: (Boolean) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array.
@throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> CharArray.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Array<out T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R> IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(maxValue, v) < 0) {
            maxValue = v
        }
    }
    return maxValue
}

Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

```

```

*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@kotlin.internal.InlineOnly^public
inline fun <R> LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {^n if
(isEmpty()) return null^n var max Value = selector(this[0])^n for (i in 1..lastIndex) {^n val v =
selector(this[i])^n if (comparator.compare(max Value, v) < 0) {^n max Value = v^n }^n }^n return
max Value^}^n/n/**^n * Returns the largest value according to the provided [comparator]^n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@kotlin.internal.InlineOnly^public inline fun <R>
FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {^n if (isEmpty())
return null^n var max Value = selector(this[0])^n for (i in 1..lastIndex) {^n val v = selector(this[i])^n if
(comparator.compare(max Value,
v) < 0) {^n max Value = v^n }^n }^n return max Value^}^n/n/**^n * Returns the largest value
according to the provided [comparator]^n * among all values produced by [selector] function applied to each
element in the array or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@kotlin.internal.InlineOnly^public inline fun <R>
DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {^n if (isEmpty())
return null^n var max Value = selector(this[0])^n for (i in 1..lastIndex) {^n val v = selector(this[i])^n if
(comparator.compare(max Value, v) < 0) {^n max Value = v^n }^n }^n return max Value^}^n/n/**^n *
Returns the largest value according to the provided [comparator]^n * among all values produced by [selector]
function applied to each element in the array or
`null` if there are no elements.^n
*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@kotlin.internal.InlineOnly^public inline fun <R>
BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {^n if (isEmpty())
return null^n var max Value = selector(this[0])^n for (i in 1..lastIndex) {^n val v = selector(this[i])^n if
(comparator.compare(max Value, v) < 0) {^n max Value = v^n }^n }^n return max Value^}^n/n/**^n *
Returns the largest value according to the provided [comparator]^n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@kotlin.internal.InlineOnly^public inline fun <R>
CharArray.maxOfWithOrNull(comparator: Comparator<in R>,
selector: (Char) -> R): R? {^n if (isEmpty()) return null^n var max Value = selector(this[0])^n for (i in
1..lastIndex) {^n val v = selector(this[i])^n if (comparator.compare(max Value, v) < 0) {^n max Value
= v^n }^n }^n return max Value^}^n/n/**^n * Returns the largest element or `null` if there are no elements.^n
* ^n * If any of elements is `NaN` returns `NaN`.^n *^@SinceKotlin("1.4")^public fun Array<out
Double>.maxOrNull(): Double? {^n if (isEmpty()) return null^n var max = this[0]^n for (i in 1..lastIndex) {^n
val e = this[i]^n max = maxOf(max, e)^n }^n return max^}^n/n/**^n * Returns the largest element or `null`
if there are no elements.^n * ^n * If any of elements is `NaN` returns `NaN`.^n *^@SinceKotlin("1.4")^public fun
Array<out Float>.maxOrNull(): Float? {^n if (isEmpty()) return null^n var max = this[0]^n for (i in
1..lastIndex) {^n val e = this[i]^n max = maxOf(max,
e)^n }^n return max^}^n/n/**^n * Returns the largest element or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^public fun <T : Comparable<T>> Array<out T>.maxOrNull(): T? {^n if (isEmpty())
return null^n var max = this[0]^n for (i in 1..lastIndex) {^n val e = this[i]^n if (max < e) max = e^ }^n
return max^}^n/n/**^n * Returns the largest element or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^public fun ByteArray.maxOrNull(): Byte? {^n if (isEmpty()) return null^n var max =
this[0]^n for (i in 1..lastIndex) {^n val e = this[i]^n if (max < e) max = e^ }^n return max^}^n/n/**^n *

```

```

Returns the largest element or `null` if there are no elements.
ShortArray.maxOrNull(): Short? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

* Returns the largest element or `null` if there are no elements.
IntArray.maxOrNull(): Int? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

* Returns the largest element or `null` if there are no elements.
LongArray.maxOrNull(): Long? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

* Returns the largest element or `null` if there are no elements.
FloatArray.maxOrNull(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}

* Returns the largest element or `null` if there are no elements.
DoubleArray.maxOrNull(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}

* Returns the largest element or `null` if there are no elements.
CharArray.maxOrNull(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {
    return maxWithOrNull(comparator)
}

@Deprecated("Use maxWithOrNull instead.", ReplaceWith("this.maxWithOrNull(comparator)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {
    return maxWithOrNull(comparator)
}

* Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
<T> Array<out T>.maxWithOrNull(comparator: Comparator<in T>): T? {
    if (isEmpty()) return null
    var max = this[0]

```

```

for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n } \n return
max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *\n@SinceKotlin("1.4")\npublic
fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {\n    if (isEmpty()) return null\n    var
max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator] or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun
ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {\n    if (isEmpty()) return null\n    var max
= this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator]
or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun IntArray.maxWithOrNull(comparator:
Comparator<in Int>): Int? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return
max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun LongArray.maxWithOrNull(comparator:
Comparator<in Long>): Long? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n    if
(isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no
elements.\n *\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in
Double>): Double? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first
element having the largest value according to the provided [comparator] or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there
are no elements.\n *\n@SinceKotlin("1.4")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in
Char>): Char? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n@Deprecated("Use minOrNull
instead.", ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Double>.min(): Double? {\n    return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Float>.min(): Float? {\n    return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince
= "1.6")\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n    return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun ByteArray.min(): Byte? {\n    return minOrNull()\n}\n\n@Deprecated("Use
minOrNull instead.", ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun ShortArray.min(): Short? {\n    return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",

```

```

ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun IntArray.min(): Int? {\n    return minOrNull()\n}\n\n@Deprecated("Use
minOrNull instead.\", ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun LongArray.min():
Long? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun FloatArray.min(): Float? {\n    return minOrNull()\n}\n\n@Deprecated("Use
minOrNull instead.\", ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.min(): Double? {\n    return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun CharArray.min(): Char? {\n    return minOrNull()\n}\n\n@Deprecated("Use
minByOrNull instead.\", ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minBy(selector:
(T) -> R): T? {\n    return minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R):
Byte? {\n    return minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R):
Short? {\n    return minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int?
{\n    return minByOrNull(selector)\n}\n\n@Deprecated("Use
minByOrNull instead.\", ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>>
LongArray.minBy(selector: (Long) -> R): Long? {\n    return minByOrNull(selector)\n}\n\n@Deprecated("Use
minByOrNull instead.\", ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>>
FloatArray.minBy(selector: (Float) -> R): Float? {\n    return minByOrNull(selector)\n}\n\n@Deprecated("Use
minByOrNull instead.\", ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>>
DoubleArray.minBy(selector: (Double) -> R): Double? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince
= \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>>
BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)\")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R):
Char? {\n    return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n *\n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue
= selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue >
v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first

```



```

element yielding the smallest value of the given function or `null` if there are no elements.
 * @sample
samples.collections.Collections.Aggregates.minByOrNull
 *^@SinceKotlin("1.4")
public inline fun <R :
Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue =
selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v)
        {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
 * Returns the first
element yielding the smallest value of the
given function or `null` if there are no elements.
 * @sample
samples.collections.Collections.Aggregates.minByOrNull
 *^@SinceKotlin("1.4")
public inline fun <R :
Comparable<R>> ShortArray.minByOrNull(selector: (Short) -> R): Short? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue =
selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v)
        {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
 * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.
 * @sample
samples.collections.Collections.Aggregates.minByOrNull
 *^@SinceKotlin("1.4")
public inline fun <R :
Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {
    if (isEmpty()) return null
    var minElem
= this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem =
e
            minValue = v
        }
    }
    return minElem
}
 * Returns the first element yielding the
smallest value of the given function or `null` if there are no elements.
 * @sample
samples.collections.Collections.Aggregates.minByOrNull
 *^@SinceKotlin("1.4")
public inline fun <R :
Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue =
selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v)
        {
            minElem = e
            minValue = v
        }
    }
    return
minElem
}
 * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.
 * @sample
samples.collections.Collections.Aggregates.minByOrNull
 *^@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> FloatArray.minByOrNull(selector: (Float) ->
R): Float? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if
(lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e =
this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
 * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.
 * @sample
samples.collections.Collections.Aggregates.minByOrNull
 *^@SinceKotlin("1.4")
public inline fun <R : Comparable<R>> DoubleArray.minByOrNull(selector:
(Double) -> R): Double? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex =
this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in
1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
 * Returns the first element yielding the smallest value
of the given function or `null` if there are no elements.
 * @sample
samples.collections.Collections.Aggregates.minByOrNull
 *^@SinceKotlin("1.4")
public inline fun <R :
Comparable<R>> BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean? {
    if (isEmpty()) return
null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var
minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 * @sample
samples.collections.Collections.Aggregates.minByOrNull
 *^@SinceKotlin("1.4")
public inline fun
<R : Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {
    if (isEmpty()) return null

```

```

var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue =
selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v)
{\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is
`NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.minOf(selector: (Byte) -> Double): Double {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue
= minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is
empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Double):
Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun FloatArray.minOf(selector: (Float) -> Double): Double {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n

```

value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws

NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
```

function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
```

minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
```

minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline
```

```
fun <T> Array<out T>.minOf(selector: (T) -> Float): Float {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest
```

value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws

```
NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
```

function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
```

minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
```

minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector:
(Long) -> Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n
}\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each
element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector:
(Char) -> Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n
}\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOf(selector: (T) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (minValue > v) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced

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by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ShortArray.minOf(selector: (Short) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> FloatArray.minOf(selector: (Float) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var

```

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minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharArray.minOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector: (Double) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector: (Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOrNull(selector: (T) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOrNull(selector: (Byte) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOrNull(selector: (Short) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n

\* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOrNull(selector: (Int) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n

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\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.minOrNull(selector: (Long) -> Float): Float? {\n if (isEmpty()) return null\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced
by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector]
function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n

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\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector:
(Double) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to
each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector:
(Boolean) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
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\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
}\n return minValue\n}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \*
applied to each element in the array or `null` if there are no elements.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOrNull(selector: (T) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n
return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *

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applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> ByteArray.minOrNull(selector: (Byte) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOrNull(selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n
if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
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inline fun <R : Comparable<R>> LongArray.minOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.minOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each element in the array or `null` if there are no elements.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> BooleanArray.minOrNull(selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest
value according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.minOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {\n    if
(isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n
    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex)
{\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among
all values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue
= selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue,
v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among
all values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function
applied to each element in the array or `null` if there are no elements.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n  if (isEmpty()) return null\n
var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.minOfWithOrNull(comparator:
Comparator<in R>, selector: (Byte) -> R): R? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n
for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if
there are no elements.\n
*\n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n  if (isEmpty())
return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n

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minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if
there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n    if (isEmpty()) return
null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n    if
(isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n    if (isEmpty()) return
null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n    if (isEmpty())
return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according
to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the
array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n    if (isEmpty())
return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n    if
(isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun Array<out Double>.minOrNull(): Double? {\n    if
(isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min,
e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any

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of elements is `NaN` returns `NaN`.n */n@SinceKotlin("1.4")\npublic fun Array<out Float>.minOrNull(): Float?
{\n
    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min =
minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*/n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull(): T? {\n    if (isEmpty())
return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n
return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*/n@SinceKotlin("1.4")\npublic fun ByteArray.minOrNull(): Byte? {\n    if (isEmpty()) return null\n    var min =
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*/n@SinceKotlin("1.4")\npublic fun ShortArray.minOrNull(): Short? {\n    if (isEmpty()) return null\n    var
min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*/n@SinceKotlin("1.4")\npublic fun IntArray.minOrNull(): Int? {\n    if (isEmpty()) return null\n    var min =
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*/n@SinceKotlin("1.4")\npublic fun LongArray.minOrNull(): Long? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n
*/n * If any of elements is `NaN` returns `NaN`.n */n@SinceKotlin("1.4")\npublic fun FloatArray.minOrNull(): Float? {\n    if (isEmpty()) return null\n    var min =
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*/n * If any of elements is `NaN` returns
`NaN`.n */n@SinceKotlin("1.4")\npublic fun DoubleArray.minOrNull(): Double? {\n    if (isEmpty()) return
null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n
return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*/n@SinceKotlin("1.4")\npublic fun CharArray.minOrNull(): Char? {\n    if (isEmpty()) return null\n    var min =
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return
min\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic
fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n    return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n    return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use
minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")\n

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ReplaceWith("\this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double?
{\n  return minWithOrNull(comparator)\n}\n\n@Deprecated("\Use minWithOrNull instead.\",
ReplaceWith("\this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince
= \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun BooleanArray.minWith(comparator:
Comparator<in Boolean>): Boolean? {\n  return minWithOrNull(comparator)\n}\n\n@Deprecated("\Use
minWithOrNull instead.\",
ReplaceWith("\this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n
return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to
the provided [comparator] or `null` if there are no elements.\n * \n@SinceKotlin("1.4")\npublic fun <T> Array<out
T>.minWithOrNull(comparator: Comparator<in T>): T? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for
(i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return
min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.minWithOrNull(comparator: Comparator<in Byte>): Byte? {\n
if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.minWithOrNull(comparator: Comparator<in Short>): Short? {\n
if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the
smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic
fun IntArray.minWithOrNull(comparator: Comparator<in Int>): Int? {\n  if (isEmpty()) return null\n  var min =
this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n
}\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]
or `null` if there are no elements.\n * \n@SinceKotlin("1.4")\npublic fun LongArray.minWithOrNull(comparator:
Comparator<in Long>): Long? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n  var min
= this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n
}\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]
or `null` if there are no elements.\n * \n@SinceKotlin("1.4")\npublic fun
DoubleArray.minWithOrNull(comparator: Comparator<in Double>): Double? {\n  if (isEmpty()) return null\n
var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min =
e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
[comparator] or `null` if there are no elements.\n * \n@SinceKotlin("1.4")\npublic fun
BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n  if (isEmpty()) return null\n
var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min
= e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
[comparator] or `null` if there are no elements.\n * \n@SinceKotlin("1.4")\npublic fun
CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {\n  if (isEmpty()) return null\n  var min =
this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n
}\n  return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n * \n@SinceKotlin("1.4")\npublic fun <T> Array<out T>.none(): Boolean {\n
return

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isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun ByteArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun ShortArray.none():
Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun IntArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun LongArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun FloatArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun DoubleArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun BooleanArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match
the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
<T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if
(predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
ByteArray.none(predicate: (Byte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun IntArray.none(predicate: (Int)
-> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n *
Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate:
(Long) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate:
(Float) -> Boolean): Boolean {\n    for
(element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if no elements
match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {\n    for (element in this) if
(predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate:
(Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n
return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) ->
Unit): Array<out T> {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n */\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action: (Byte) ->

```

```

Unit): ByteArray { \n    return apply { for (element in this) action(element) } \n} \n \n /** \n * Performs the given
[action] on each element and returns the array itself afterwards. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun ShortArray.onEach(action: (Short) ->
Unit): ShortArray { \n    return apply { for (element in this) action(element) } \n} \n \n /** \n * Performs the given
[action] on each element and returns the array itself afterwards. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic
inline fun IntArray.onEach(action: (Int) -> Unit): IntArray { \n    return apply { for (element in this) action(element)
} \n} \n \n /** \n * Performs the given [action] on each element and returns the array itself afterwards. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun LongArray.onEach(action: (Long) ->
Unit): LongArray { \n    return apply { for (element in this) action(element) } \n} \n \n /** \n * Performs the given
[action] on each element and returns the array itself afterwards. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun FloatArray.onEach(action: (Float) ->
Unit): FloatArray { \n    return apply { for (element in this) action(element) } \n} \n \n /** \n * Performs the given
[action] on each element and returns the array itself afterwards. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun DoubleArray.onEach(action: (Double) ->
Unit): DoubleArray { \n
    return apply { for (element in this) action(element) } \n} \n \n /** \n * Performs the given [action] on each element
and returns the array itself afterwards. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun
BooleanArray.onEach(action: (Boolean) -> Unit): BooleanArray { \n    return apply { for (element in this)
action(element) } \n} \n \n /** \n * Performs the given [action] on each element and returns the array itself
afterwards. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun CharArray.onEach(action:
(Char) -> Unit): CharArray { \n    return apply { for (element in this) action(element) } \n} \n \n /** \n * Performs the
given [action] on each element, providing sequential index with the element, \n * and returns the array itself
afterwards. \n * @param [action] function that takes the index of an element and the element itself \n * and performs
the action on the element. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun
<T> Array<out T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> { \n    return apply {
forEachIndexed(action) } \n} \n \n /** \n * Performs the given [action] on each element, providing sequential index
with the element, \n * and returns the array itself afterwards. \n * @param [action] function that takes the index of an
element and the element itself \n * and performs the action on the element. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun
ByteArray.onEachIndexed(action:
(index: Int, Byte) -> Unit): ByteArray { \n    return apply { forEachIndexed(action) } \n} \n \n /** \n * Performs the
given [action] on each element, providing sequential index with the element, \n * and returns the array itself
afterwards. \n * @param [action] function that takes the index of an element and the element itself \n * and performs
the action on the element. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun
ShortArray.onEachIndexed(action: (index: Int,
Short) -> Unit): ShortArray { \n    return apply { forEachIndexed(action) } \n} \n \n /** \n * Performs the given [action]
on each element, providing sequential index with the element, \n * and returns the array itself afterwards. \n *
@param [action] function that takes the index of an element and the element itself \n * and performs the action on
the element. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic inline fun
IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray { \n    return apply { forEachIndexed(action)
} \n} \n \n /** \n * Performs the given [action] on each element, providing sequential index with the element, \n * and
returns the array itself afterwards. \n * @param [action] function that takes the index of an element and the element
itself \n * and performs the action on the element. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic
inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray { \n    return apply {
forEachIndexed(action)
} \n} \n \n /** \n * Performs the given [action] on each element, providing sequential index with the element, \n * and
returns the array itself afterwards. \n * @param [action] function that takes the index of an element and the element
itself \n * and performs the action on the element. \n
*\n@SinceKotlin("1.4") \n@kotlin.internal.InlineOnly \npublic

```



```

inline fun FloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@public inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@public inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead.
 * It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@public inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    > Int): Int {
        if (isEmpty())
            throw UnsupportedOperationException("Empty array can't be reduced.")
    }
}

```

```

var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n *
and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*/\n\npublic inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {\n  if (isEmpty())\n  throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*/\n\npublic inline fun FloatArray.reduce(operation: (acc: Float,
Float) -> Float): Float {\n  if (isEmpty())\n  throw UnsupportedOperationException("Empty array can't be
reduced.")\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n
*/\n\npublic inline fun DoubleArray.reduce(operation: (acc:
Double, Double) -> Double): Double {\n  if (isEmpty())\n  throw UnsupportedOperationException("Empty
array can't be reduced.")\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n
*/\n\npublic inline fun BooleanArray.reduce(operation: (acc:
Boolean, Boolean) -> Boolean): Boolean {\n  if (isEmpty())\n  throw UnsupportedOperationException("Empty
array can't be reduced.")\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n
accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n *
please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n
*/\n\npublic inline fun CharArray.reduce(operation:
(acc: Char, Char) -> Char): Char {\n  if (isEmpty())\n  throw UnsupportedOperationException("Empty array
can't be reduced.")\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array
can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is
empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n
*/\n\npublic inline fun <S, T : S> Array<out

```

```

T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator: S = this[0]\n  for (index
in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can
be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is
empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun ByteArray.reduceIndexed(operation:
(index: Int, acc: Byte, Byte) -> Byte): Byte {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for (index in
1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value
starting with the first element and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be
empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is
empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun ShortArray.reduceIndexed(operation:
(index: Int, acc: Short, Short) -> Short): Short {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for (index in
1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value
starting with the first element and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be
empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is
empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun IntArray.reduceIndexed(operation:
(index: Int, acc: Int, Int) -> Int): Int {\n  if (isEmpty())\n    throw UnsupportedOperationException("Empty array
can't be reduced.")\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(index, accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with
the first element and applying [operation] from left to right\n * to current accumulator value and each element with
its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value and the element itself,\n
*\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\npublic inline fun LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {\n  if
(isEmpty())\n    throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element with its
index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value and the element itself,\n
*\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n

```

```

*public inline fun FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce

```

*public inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.
 @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
public inline fun <S, T : S> Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {
    if (isEmpty())
        return null
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.
 @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
public inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.
 @param [operation] function that takes the

index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduceOrNull
*/
@SinceKotlin("1.4")
public inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

*/
@SinceKotlin("1.4")
public inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) -> Int): Int? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

*/
@SinceKotlin("1.4")
public inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long, Long) -> Long): Long? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

*/
@SinceKotlin("1.4")
public inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

*/
@SinceKotlin("1.4")
public inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc: Double, Double) -> Double): Double? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

*/
@SinceKotlin("1.4")
public inline fun BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char,
Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S?
{\n if (isEmpty())\n return null\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n
accumulator = operation(accumulator, this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value
starting with the first element and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator}\n\n/**\n * Accumulates
value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function
that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
inline fun LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n if (isEmpty())\n return
null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator,
this[index])\n }\n return accumulator}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun

```

```

FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns `null` if the array is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceOrNull

```

*SinceKotlin("1.4")WasExperimental(ExperimentalStdlibApi::class)public inline fun
DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns `null` if the array is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceOrNull

```

*SinceKotlin("1.4")WasExperimental(ExperimentalStdlibApi::class)public inline fun
BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Returns `null` if the array is empty.
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceOrNull

```

*SinceKotlin("1.4")WasExperimental(ExperimentalStdlibApi::class)public inline fun
CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex)
        accumulator = operation(accumulator, this[index])
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceRight

```

*public inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = get(index--)
    while (index >= 0)
        accumulator = operation(get(index--), accumulator)
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceRight

```

*public inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0)
        accumulator = operation(get(index--), accumulator)
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*/\npublic inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n var index = lastIndex\n if (index < 0)\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*/\npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*/\npublic inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*/\npublic inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*/\npublic inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*/\npublic inline fun



```

BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index

```

```

< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]\n * from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]\n * function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. 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If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun

```

```

CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator =
        get(index--)
    while
        (index >= 0) {
            accumulator = operation(index, get(index), accumulator)
            --index
        }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to
 * left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if
 * the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and
 * current accumulator value,
 * and calculates the next accumulator value.
 * @sample
 */
samples.collections.Collections.Aggregates.reduceRightOrNull

/**
 * @SinceKotlin("1.4")
 */
public inline fun <S, T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {
    var index =
        lastIndex
    if (index < 0) return null
    var accumulator: S = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element
 * with its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current
 * accumulator
 * value,
 * and calculates the next accumulator value.
 * @sample
 */
samples.collections.Collections.Aggregates.reduceRightOrNull

/**
 * @SinceKotlin("1.4")
 */
public inline fun
ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte? {
    var index =
        lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with
 * its
 * index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and current
 * accumulator value,
 * and calculates the next accumulator value.
 * @sample
 */
samples.collections.Collections.Aggregates.reduceRightOrNull

/**
 * @SinceKotlin("1.4")
 */
public inline fun
ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {
    var index =
        lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to left
 * to each element with
 * its index in the original array and current accumulator value.
 * Returns `null` if the array is empty.
 * @param [operation]
 * function that takes the index of an element, the element itself and current accumulator value,
 * and calculates the
 * next accumulator value.
 * @sample
 */
samples.collections.Collections.Aggregates.reduceRightOrNull

/**
 * @SinceKotlin("1.4")
 */
public inline fun
IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, acc: Int) -> Int): Int? {
    var index =
        lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation] from right to
 * left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if
 * the array is empty.
 * @param [operation] function that takes the index of an element, the element itself and
 * current accumulator
 * value,
 * and calculates the next accumulator
 * value.
 * @sample
 */
samples.collections.Collections.Aggregates.reduceRightOrNull

/**
 * @SinceKotlin("1.4")
 */
public inline fun
LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {
    var index =
        lastIndex
    if (index < 0) return null
    var accumulator =
        get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with the last element and applying [operation]
 * from right to left
 * to each element with its index in the original array and current accumulator value.
 * Returns `null` if
 * the array is empty.
 * @param [operation] function that takes the index of an element, the

```

```

element itself and current accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun
FloatArray.reduceRightIndexedOrNull(operation:
(index: Int, Float, acc: Float) -> Float): Float? {\n    var index = lastIndex\n    if (index < 0) return null\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes the index of an element, the element itself and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * @SinceKotlin("1.4")\npublic inline fun DoubleArray.reduceRightIndexedOrNull(operation: (index: Int,
Double, acc: Double) -> Double): Double? {\n    var index = lastIndex\n
    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator =
operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element with its index in
the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, the element itself and current accumulator value,\n * and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun
BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {\n
    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n
        accumulator = operation(index,
get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with
the last element and applying [operation] from right to left\n * to each element with its index in the original array
and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function
that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * @SinceKotlin("1.4")\npublic inline fun CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char,
acc: Char) -> Char): Char? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index-
-)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n    var index = lastIndex\n    if (index < 0)
return null\n    var accumulator: S = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index-
-), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function
that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {\n    var index = lastIndex\n    if (index
< 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator =
operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *

```

Returns `null` if the array is empty.

`@param [operation]` function that takes an element and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Returns `null` if the array is empty.

`@param [operation]` function that takes an element and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Returns `null` if the array is empty.

`@param [operation]` function that takes an element and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Returns `null` if the array is empty.

`@param [operation]` function that takes an element and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Returns `null` if the array is empty.

`@param [operation]` function that takes an element and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

Returns `null` if the array is empty.

`@param [operation]` function that takes an element and current accumulator value, and calculates the next accumulator value.

`@sample`

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.

value.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\npublic inline fun <T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) ->
R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial)
}\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(initial: R,
operation: (acc: R, Byte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial)
}\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(initial: R,
operation: (acc: R, Short) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply
{ add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator,
element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(initial: R,
operation: (acc: R, Int) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size +
1).apply
{ add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator,
element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should

```

not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFold(initial: R, operation: (acc: R, Long) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFold(initial: R, operation: (acc: R, Float) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFold(initial: R, operation: (acc: R, Double) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFold(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
```

```

previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n * \n @SinceKotlin("1.4")\n public inline fun <T, R>
Array<out T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R):
List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n
var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator,
this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original
array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public
inline fun <R> ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n
if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator
= initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R>
ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation]
function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n if (isEmpty())
return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting
list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n @SinceKotlin("1.4")\n @kotlin.internal.InlineOnly\n public inline fun <R>
LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n if (isEmpty())
return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n

```



```

for (index in indices) {
    accumulator = operation(index, accumulator, this[index])
}
result.add(accumulator)
}
return result
}

/**
 * Returns a list containing successive accumulation
 * values generated by applying [operation] from left to right
 * to each element, its index in the original array and
 * current accumulator value that starts with [initial] value.
 * Note that `acc` value passed
 * to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element
 * itself, and calculates the next accumulator value.
 * @sample
 * samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
    }
    result.add(accumulator)
}

/**
 * Returns a list containing successive accumulation
 * values generated by applying [operation] from left to right
 * to each element, its index in the original
 * array and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to
 * [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element
 * itself, and calculates the next accumulator value.
 * @sample
 * samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
    }
    result.add(accumulator)
}

/**
 * Returns a list containing successive accumulation
 * values generated by applying [operation] from left to right
 * to each element, its index in the original array and
 * current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function
 * should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation]
 * function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the
 * next accumulator value.
 * @sample
 * samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
    }
    result.add(accumulator)
}

/**
 * Returns a list containing successive accumulation
 * values generated by applying [operation] from left to right
 * to each element, its index in the original array and
 * current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function
 * should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation]
 * function that takes the index of an element, current accumulator value
 * and the element itself, and calculates the
 * next accumulator value.
 * @sample
 * samples.collections.Collections.Aggregates.runningFold
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <R>
CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
    }
    result.add(accumulator)
}

/**
 * Returns a list containing successive accumulation
 * values generated by applying [operation] from left to right
 * to each element and current accumulator value that
 * starts with the first element of this array.
 * Note that `acc` value passed to [operation] function should not be
 * mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that
 * takes current accumulator value and the element, and calculates the next accumulator value.
 * @sample

```

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>\nArray<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n    if (isEmpty()) return emptyList()\n    var\n    accumulator: S = this[0]\n    val result\n    = ArrayList<S>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =\n        operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list\n containing successive accumulation values generated by applying [operation] from left to right\n * to each element\n and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function\n that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningReduce
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation:\n(acc: Byte, Byte) -> Byte): List<Byte> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val\n    result = ArrayList<Byte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =\n        operation(accumulator,\n        this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive\n accumulation values generated by applying [operation] from left to right\n * to each element and current\n accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes\n current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningReduce
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation:\n(acc: Short, Short) -> Short): List<Short> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val\n    result = ArrayList<Short>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =\n        operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list\n containing successive\n accumulation values generated by applying [operation] from left to right\n * to each element and current\n accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes\n current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningReduce
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc:\nInt, Int) -> Int): List<Int> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val\n    result = ArrayList<Int>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =\n        operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list\n containing successive accumulation values generated by applying [operation] from left to right\n * to each element\n and current accumulator value that\n starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value\n and an element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningReduce
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation:\n(acc: Long, Long) -> Long): List<Long> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val\n    result = ArrayList<Long>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =\n        operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list\n containing successive accumulation values generated by applying [operation] from left to right\n * to each element\n and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function\n that takes current accumulator value and\n an element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningReduce
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation:\n(acc: Float, Float) -> Float): List<Float> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val
```

```

result = ArrayList<Float>(size).apply { add(accumulator) }
for (index in 1 until size) {
    accumulator = operation(accumulator, this[index])
    result.add(accumulator)
}
return result

```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array.  
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
 @sample samples.collections.Collections.Aggregates.runningReduce

```

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun DoubleArray.runningReduce(operation:
(acc: Double, Double) -> Double): List<Double> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Double>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array.  
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
 @sample samples.collections.Collections.Aggregates.runningReduce

```

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun BooleanArray.runningReduce(operation:
(acc: Boolean, Boolean) -> Boolean): List<Boolean> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Boolean>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array.  
 @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
 @sample samples.collections.Collections.Aggregates.runningReduce

```

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun CharArray.runningReduce(operation:
(acc: Char, Char) -> Char): List<Char> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Char>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.  
 Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
 @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
 @sample samples.collections.Collections.Aggregates.runningReduce

```

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <S, T : S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    if (isEmpty()) return emptyList()
    var accumulator: S = this[0]
    val result = ArrayList<S>(size).apply { add(accumulator) }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.  
 @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
 @sample samples.collections.Collections.Aggregates.runningReduce

```

@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Byte>(size).apply {
        add(accumulator)
    }
    for (index in 1 until size) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.  
 @param [operation] function that

takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.runningReduce
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {n if
(isEmpty()) return emptyList()n
    var accumulator = this[0]n    val result = ArrayList<Short>(size).apply { add(accumulator) }n    for (index in 1
until size) {n        accumulator = operation(index, accumulator, this[index])n        result.add(accumulator)n    }n
return result\n}n/n/**n * Returns a list containing successive accumulation values generated by applying
[operation] from left to rightn * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.n * n * @param [operation] function that takes the index of an element,
current accumulator value and the element itself, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {n if (isEmpty()) return
emptyList()n    var accumulator = this[0]n
    val result = ArrayList<Int>(size).apply { add(accumulator) }n    for (index in 1 until size) {n        accumulator =
operation(index, accumulator, this[index])n        result.add(accumulator)n    }n    return result\n}n/n/**n *
Returns a list containing successive accumulation values generated by applying [operation] from left to rightn * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.n * n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {n if
(isEmpty()) return emptyList()n    var accumulator = this[0]n    val result = ArrayList<Long>(size).apply
{ add(accumulator) }n    for (index in 1 until size) {n        accumulator = operation(index, accumulator,
this[index])n        result.add(accumulator)n    }n    return result\n}n/n/**n * Returns a list containing successive
accumulation values generated by applying [operation] from left to rightn * to each element, its index in the original
array and current accumulator value that starts with the first element of this array.n * n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself, and calculates the
next accumulator value.n * n * @sample samples.collections.Collections.Aggregates.runningReduce
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {n if
(isEmpty()) return emptyList()n    var accumulator = this[0]n    val result = ArrayList<Float>(size).apply {
add(accumulator)
}n    for (index in 1 until size) {n        accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n    }n    return result\n}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.n * n * @param [operation] function that
takes the index of an element, current accumulator value and the element itself, and calculates the next
accumulator value.n * n * @sample samples.collections.Collections.Aggregates.runningReduce
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {n if
(isEmpty()) return emptyList()n    var accumulator = this[0]n    val result = ArrayList<Double>(size).apply {
add(accumulator) }n    for
(index in 1 until size) {n        accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n    }n    return result\n}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element, its index in the original array and

```

current accumulator value that starts with the first element of this array.

```

    * \n * @param [operation] function that takes the index of an element, current accumulator value
    * \n * and the element itself, and calculates the next accumulator value.
    * \n * @sample samples.collections.Collections.Aggregates.runningReduce
    * \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun
    BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean>
    { \n if (isEmpty()) return emptyList() \n var accumulator = this[0] \n val result =
    ArrayList<Boolean>(size).apply { add(accumulator) } \n for (index in 1
    until size) { \n accumulator = operation(index, accumulator, this[index]) \n result.add(accumulator) \n } \n
    return result \n } \n \n /** \n * Returns a list containing successive accumulation values generated by applying
    [operation] from left to right \n * to each element, its index in the original array and current accumulator value that
    starts with the first element of this array. \n * \n * @param [operation] function that takes the index of an element,
    current accumulator value \n * and the element itself, and calculates the next accumulator value. \n * \n * @sample
    samples.collections.Collections.Aggregates.runningReduce
    * \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun
    CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> { \n if (isEmpty())
    return emptyList() \n var accumulator = this[0] \n val result = ArrayList<Char>(size).apply { add(accumulator)
    } \n for (index in 1 until size) { \n accumulator
    = operation(index, accumulator, this[index]) \n result.add(accumulator) \n } \n return result \n } \n \n /** \n *
    Returns a list containing successive accumulation values generated by applying [operation] from left to right \n * to
    each element and current accumulator value that starts with [initial] value. \n * \n * Note that `acc` value passed to
    [operation] function should not be mutated; \n * otherwise it would affect the previous value in resulting list. \n * \n *
    @param [operation] function that takes current accumulator value and an element, and calculates the next
    accumulator value. \n * \n * @sample samples.collections.Collections.Aggregates.scan
    * \n @SinceKotlin("1.4") \n @WasExperimental(ExperimentalStdlibApi::class) \n public inline fun <T, R>
    Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> { \n return runningFold(initial,
    operation) \n } \n \n /** \n * Returns a list containing successive accumulation values generated by applying [operation]
    from left to
    right \n * to each element and current accumulator value that starts with [initial] value. \n * \n * Note that `acc` value
    passed to [operation] function should not be mutated; \n * otherwise it would affect the previous value in resulting
    list. \n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the
    next accumulator value. \n * \n * @sample samples.collections.Collections.Aggregates.scan
    * \n @SinceKotlin("1.4") \n @WasExperimental(ExperimentalStdlibApi::class) \n @kotlin.internal.InlineOnly \n public
    inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> { \n return runningFold(initial,
    operation) \n } \n \n /** \n * Returns a list containing successive accumulation values generated by applying [operation]
    from left to right \n * to each element and current accumulator value that starts with [initial] value. \n * \n * Note that
    `acc` value passed to [operation] function should not be mutated; \n * otherwise it would
    affect the previous value in resulting list. \n * \n * @param [operation] function that takes current accumulator value
    and an element, and calculates the next accumulator value. \n * \n * @sample
    samples.collections.Collections.Aggregates.scan
    * \n @SinceKotlin("1.4") \n @WasExperimental(ExperimentalStdlibApi::class) \n @kotlin.internal.InlineOnly \n public
    inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> { \n return
    runningFold(initial, operation) \n } \n \n /** \n * Returns a list containing successive accumulation values generated by
    applying [operation] from left to right \n * to each element and current accumulator value that starts with [initial]
    value. \n * \n * Note that `acc` value passed to [operation] function should not be mutated; \n * otherwise it would
    affect the previous value in resulting list. \n * \n * @param [operation] function that takes current accumulator value
    and an element, and calculates the next accumulator value. \n * \n * @sample
    samples.collections.Collections.Aggregates.scan
  
```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic

```

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inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {
    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
    generated by applying [operation] from left to right\n * to each element, its index in the original array and current
    accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
    not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
    function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
    next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
    *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
    inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte)
    -> R): List<R> {
        return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing
        successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in
        the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed
        to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n *
        \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element
        itself, and calculates the next accumulator value.\n * \n * @sample
        samples.collections.Collections.Aggregates.scan\n
        *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
        inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {
            return
            runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list
            containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
            its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
            value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
            resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
            and the element itself, and calculates the next accumulator value.\n * \n * @sample
            samples.collections.Collections.Aggregates.scan\n
            *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
            inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {
                return
                runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
                generated by applying [operation] from left to right\n * to each
                element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note
                that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
                value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator
                value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
                samples.collections.Collections.Aggregates.scan\n
                *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
                inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {
                    return
                    runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
                    generated by applying [operation] from left to right\n * to each element, its index in the original array and
                    current accumulator value that starts with [initial] value.\n
                    \n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
                    affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an
                    element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *
                    \n * @sample
                    samples.collections.Collections.Aggregates.scan\n
                    *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
                    inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {
                        return
                        runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation
                        values generated by applying [operation] from left to right\n * to each element, its index in the original
                        array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value
                        passed to [operation] function should
                    
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not be mutated;\n \* otherwise

it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
```

the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",\nReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",\nReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince
```

```
= "1.5")\npublic inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",\nReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",\nReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun IntArray.sumBy(selector: (Int) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n
```

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    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",\nReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.",\nReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
```



```

selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use
sumOf instead.", ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {\n var sum: Int = 0\n for (element
in this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharArray.sumBy(selector:
(Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n } \n return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>
Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ShortArray.sumByDouble(selector: (Short) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
IntArray.sumByDouble(selector: (Int) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
* \n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
LongArray.sumByDouble(selector: (Long) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n var sum: Double = 0.0\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic
inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n var sum: Double = 0.0\n for
(element in this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n */\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.0\n for (element
in this) {\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced

```

```

by [selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharArray.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Double): Double {\n    var sum: Double = 0.toDouble()\n
    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Double): Double {\n    var sum: Double = 0.toDouble()\n
    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Double): Double {\n    var sum:
Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Double): Double
{\n    var sum: Double = 0.toDouble()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun

```

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CharArray.sumOf(selector: (Char) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun <T>
Array<out T>.sumOf(selector: (T) -> Int):
    Int {
        var sum: Int = 0.toInt()
        for (element in this) {
            sum += selector(element)
        }
        return sum
    }
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
ByteArray.sumOf(selector: (Byte) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
ShortArray.sumOf(selector: (Short) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
IntArray.sumOf(selector: (Int) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
LongArray.sumOf(selector: (Long) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
FloatArray.sumOf(selector: (Float) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
DoubleArray.sumOf(selector: (Double) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
BooleanArray.sumOf(selector: (Boolean) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
 * Returns the sum of all values produced by [selector] function applied to each element in the array.

@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@kotlin.internal.InlineOnly
public inline fun
CharArray.sumOf(selector: (Char) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this)

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    {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
 [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
<T> Array<out T>.sumOf(selector: (T) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
 [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
ByteArray.sumOf(selector: (Byte) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
 [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
ShortArray.sumOf(selector: (Short) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector]
 function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
IntArray.sumOf(selector: (Int) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum +=
        selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function
 applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
LongArray.sumOf(selector: (Long) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector]
 function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
FloatArray.sumOf(selector: (Float) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each
 element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
DoubleArray.sumOf(selector: (Double) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by
 [selector] function applied to each element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
BooleanArray.sumOf(selector: (Boolean) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each
 element in the array.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
CharArray.sumOf(selector: (Char) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {

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sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n
    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline
fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n    var
sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt
{\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied
to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n  var
sum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/*
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong):
ULong {\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n
  }\n  return sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each
element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong
{\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n
  }\n  return
sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> ULong):
ULong {\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n
  }\n  return
sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n
var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n
  }\n  return
sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong {\n  var sum: ULong = 0.toULong()\n  for
(element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong
{\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n
  }\n  return
sum\n}\n\n/* Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.sumOf(selector: (Double) -> ULong): ULong {\n  var sum: ULong = 0.toULong()\n  for
(element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/* Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy

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pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element
in the array.\n
*/\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n
*/\n\npublic fun <T : Any>
Array<T?>.requireNonNulls(): Array<T> {\n    for (element in this) {\n        if (element == null) {\n            throw
IllegalArgumentException("null element found in $this.")\n        }\n    }\n
@Suppress("UNCHECKED_CAST")\n    return this as Array<T>\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for
which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n
*/\n\n@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\npublic inline fun <T>
Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val
second = ArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n
        }\n        else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original
array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
*second* list contains elements for which [predicate] yielded `false`.\n
*/\n\n@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\npublic inline fun
ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n    val first =
ArrayList<Byte>()\n    val second = ArrayList<Byte>()\n    for (element in this) {\n        if (predicate(element)) {\n
            first.add(element)\n        }\n        else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n
*/\n\n@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\npublic inline fun
ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n    val first =
ArrayList<Short>()\n    val second = ArrayList<Short>()\n    for (element in this) {\n        if (predicate(element)) {\n
            first.add(element)\n        }\n        else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements
for which [predicate] yielded `false`.\n
*/\n\n@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\npublic inline fun
IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n    val first = ArrayList<Int>()\n    val
second = ArrayList<Int>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n
        }\n        else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original
array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
*second* list contains elements for which [predicate] yielded `false`.\n
*/\n\n@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\npublic inline fun
LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>,
List<Long>> {\n    val first = ArrayList<Long>()\n    val second = ArrayList<Long>()\n    for (element in this) {\n
        if (predicate(element)) {\n            first.add(element)\n        }\n        else {\n            second.add(element)\n
        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n
*/\n\n@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\npublic inline fun
FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n    val

```

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first = ArrayList<Float>()\n val second = ArrayList<Float>()\n for (element in this) {\n    if
(predicate(element)) {\n        first.add(element)\n    } else {\n        second.add(element)\n    }\n }\n
return Pair(first, second)\n}\n\n/**\n * Splits
the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n *
while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun
DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n    val first =
ArrayList<Double>()\n    val second = ArrayList<Double>()\n    for (element in this) {\n        if (predicate(element))
{\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline
fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n    val first
= ArrayList<Boolean>()\n    val second = ArrayList<Boolean>()\n    for (element in this) {\n        if
(predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n    val
first = ArrayList<Char>()\n    val second = ArrayList<Char>()\n    for (element in this) {\n        if
(predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n
return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array
and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other:
Array<out R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
<R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>
ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Array<out R>):
List<Pair<Int, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R>
LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list
of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic
infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n    return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other: Array<out
R>): List<Pair<Double, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the

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shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \npublic
infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n    return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the
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samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <T, R, V> Array<out
T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
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ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n    val size = minOf(size,
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LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n    val size = minOf(size,
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*\npublic inline fun <R, V> FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n
val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements
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val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n
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*\npublic inline fun <R, V>

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}\n  return list}\n\n/**\n * Returns a list of values built from the elements
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CharArray.zip(other: Array<out R>, transform:
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R> Array<out T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n
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List<Pair<Byte, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns
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t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> IntArray.zip(other: Iterable<R>):
List<Pair<Int, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
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*\npublic infix fun <R> LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {\n  return zip(other) { t1, t2 -
> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
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List<Pair<Float, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
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collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R>
DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {\n  return zip(other) { t1, t2 -> t1 to t2
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length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n

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*^public inline fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] collection with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

*^public inline fun <R, V>
ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] collection with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

*^public inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] collection with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

*^public inline fun <R, V>
IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] collection with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

*^public inline fun <R, V>
LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] collection with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

*^public inline fun <R, V>
FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] collection with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

*^public inline fun <R, V>
DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] collection with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

*^public inline fun <R, V>
BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var

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i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection\n with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n list has length of the\n shortest collection.\n * \n * @sample
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samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun ByteArray.zip(other: ByteArray):\n List<Pair<Byte, Byte>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from\n the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest\n collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun\n ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other]\n array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun IntArray.zip(other: IntArray):\n List<Pair<Int, Int>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the\n elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest\n collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun\n LongArray.zip(other: LongArray): List<Pair<Long, Long>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The\n returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun FloatArray.zip(other: FloatArray):\n List<Pair<Float, Float>>\n {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this`\n array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun DoubleArray.zip(other:\n DoubleArray): List<Pair<Double, Double>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list\n of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has\n length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic\n infix fun BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> {\n  return zip(other) { t1, t2 ->\n  t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the\n same index.\n * The returned list has length of the shortest collection.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun CharArray.zip(other:\n CharArray): List<Pair<Char, Char>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of\n values built from the elements of `this` array and the [other] array with the same index\n * using the provided\n [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>\n ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n  val size = minOf(size,\n  other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n with the same index\n * using the provided [transform] function applied\n to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>\n ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n  val size = minOf(size,\n  other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n}

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samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i],
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BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {\n val size =
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other[i]))\n }\n return list}\n\n/**\n * Returns a list of values built from the elements of `this` array and the
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The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
CharArray.zip(other: CharArray, transform:
(a: Char, b: Char) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i
in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list}\n\n/**\n * Appends the string from
all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the
collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n *
elements will be appended, followed by the [truncated] string (which defaults to `"...`").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <T, A : Appendable> Array<out
T>.joinTo(buffer: A, separator: CharSequence = ``, ``, prefix: CharSequence = ``, postfix: CharSequence = ``,
limit: Int = -1, truncated: CharSequence = `"...`, transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count
> 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element,
transform)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n
buffer.append(postfix)\n return buffer}\n\n/**\n * Appends the string from all the elements separated using
[separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can

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specify a non-negative value of [limit], in which case only the first [limit]n \* elements will be appended, followed by the [truncated] string (which defaults to "...").\n \* \n \* @sample

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samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable>
ByteArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\\", postfix: CharSequence =
"\\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Byte) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n var count
= 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit)
{\n if (transform != null)\n buffer.append(transform(element))\n else\n
buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit)
buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n * elements will
be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable>
ShortArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\\", postfix: CharSequence
= "\\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Short) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n
if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n
else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit)
buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n * elements will
be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n
*\npublic fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix:
CharSequence = "\\", postfix: CharSequence = "\\", limit: Int = -1, truncated: CharSequence = "...\", transform:
((Int) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if
(++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n
buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n
* elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable>
LongArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\\", postfix: CharSequence
= "\\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Long) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n
if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n
else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit)
buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix]
and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in
which case only the first [limit]n * elements will be appended, followed by the [truncated] string (which defaults to
"...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A :
Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\\", postfix:
CharSequence = "\\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Float) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)

```

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buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n        if (transform != null)\nbuffer.append(transform(element))\n        else\n            buffer.append(element.toString())\n    } else break\n}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using
[separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can
specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed
by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
DoubleArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\nbuffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n    }\n    if (limit >= 0 && count >
limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Appends the string from
all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the
collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n *
elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
BooleanArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? =
null): A {\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count
> 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if (transform != null)\nbuffer.append(transform(element))\n            else\n                buffer.append(element.toString())\n        } else break\n    }\n    if (limit >= 0 && count >
limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A :
Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence
= \"...\", transform: ((Char) -> CharSequence)? = null): A {\n    buffer.append(prefix)\n    var count = 0\n    for
(element in this) {\n        if (++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            if
(transform != null)\n            buffer.append(transform(element))\n            else\n                buffer.append(element)\n        } else break\n    }\n    if (limit >= 0 && count >
limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return
buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun
<T> Array<out T>.joinToString(separator:
CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n    return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n */\npublic fun ByteArray.joinToString(separator:
CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:

```

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CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
        separator, prefix, postfix, limit, truncated, transform).toString()
}
\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 * elements will be appended, followed by the [truncated] string (which defaults to "...").
 * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n\npublic fun ShortArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Short) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
        separator, prefix, postfix, limit, truncated, transform).toString()
}
\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 * elements will be appended, followed by the [truncated] string (which defaults to "...").
 * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n\npublic fun IntArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Int) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
        separator, prefix, postfix, limit, truncated, transform).toString()
}
\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 * elements will be appended, followed by the [truncated] string (which defaults to "...").
 * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n\npublic fun LongArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence =
"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 * elements will be appended, followed by the [truncated] string (which defaults to "...").
 * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n\npublic fun FloatArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence =
"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 * elements will be appended, followed by the [truncated] string (which defaults to "...").
 * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n\npublic fun DoubleArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Double) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(),
        separator, prefix, postfix, limit, truncated, transform).toString()
}
\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
 * supplied.
 * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]
 * elements will be appended, followed by the [truncated] string (which defaults to "...").
 * \n * @sample
samples.collections.Collections.Transformations.joinToString
\n\npublic fun
BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence =
"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.
 * \n * If the collection could be huge, you can specify a non-negative
 * value of [limit], in which case only the first [limit]
 * elements will be appended, followed by the [truncated] string
 * (which defaults to "...").
 * \n * @sample
samples.collections.Collections.Transformations.joinToString

```



```

*^public fun CharArray.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix:
CharSequence = "\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? =
null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated,
transform).toString()
}
*^Creates an [Iterable] instance that wraps the original array returning its elements
when being iterated.
*^public fun <T> Array<out T>.asIterable(): Iterable<T> {
    if (isEmpty()) return
emptyList()
    return Iterable { this.iterator() }
}
*^Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.
*^public fun ByteArray.asIterable(): Iterable<Byte>
{
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}
*^Creates an [Iterable]
instance that wraps the original array returning its elements when being iterated.
*^public fun
ShortArray.asIterable(): Iterable<Short> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator()
}
}
*^Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.
*^public fun IntArray.asIterable(): Iterable<Int> {
    if (isEmpty()) return emptyList()
    return
Iterable { this.iterator() }
}
*^Creates an [Iterable] instance that wraps the original array returning its
elements when being iterated.
*^public fun LongArray.asIterable(): Iterable<Long> {
    if (isEmpty()) return
emptyList()
    return Iterable { this.iterator() }
}
*^Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.
*^public fun FloatArray.asIterable():
Iterable<Float> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}
*^Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.
*^public fun
DoubleArray.asIterable(): Iterable<Double> {
    if (isEmpty()) return emptyList()
    return Iterable {
this.iterator() }
}
*^Creates an [Iterable] instance that wraps the original array returning its elements when
being iterated.
*^public fun BooleanArray.asIterable(): Iterable<Boolean> {
    if (isEmpty()) return
emptyList()
    return Iterable { this.iterator() }
}
*^Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.
*^public fun CharArray.asIterable(): Iterable<Char> {
    if
(isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}
*^Creates a [Sequence] instance that
wraps the original array returning its elements
when being iterated.
*^ @sample samples.collections.Sequences.Building.sequenceFromArray
*^public fun <T> Array<out T>.asSequence(): Sequence<T> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}
*^Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
*^ @sample samples.collections.Sequences.Building.sequenceFromArray
*^public fun ByteArray.asSequence(): Sequence<Byte> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}
*^Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
*^ @sample samples.collections.Sequences.Building.sequenceFromArray
*^public fun ShortArray.asSequence(): Sequence<Short> {
    if (isEmpty()) return emptySequence()
    return
Sequence { this.iterator() }
}
*^Creates a [Sequence] instance that wraps the original array returning its
elements
when being iterated.
*^ @sample samples.collections.Sequences.Building.sequenceFromArray
*^public fun IntArray.asSequence(): Sequence<Int> {
    if (isEmpty()) return emptySequence()
    return Sequence {
this.iterator() }
}
*^Creates a [Sequence] instance that wraps the original array returning its elements when
being iterated.
*^ @sample samples.collections.Sequences.Building.sequenceFromArray
*^public fun
LongArray.asSequence(): Sequence<Long> {
    if (isEmpty()) return emptySequence()
    return Sequence {
this.iterator() }
}
*^Creates a [Sequence] instance that wraps the original array returning its elements when
being iterated.
*^ @sample samples.collections.Sequences.Building.sequenceFromArray
*^public fun
FloatArray.asSequence(): Sequence<Float> {
    if (isEmpty()) return emptySequence()
    return Sequence {
this.iterator() }
}
*^Creates a [Sequence] instance that wraps the original array returning its
elements when being iterated.
*^ @sample samples.collections.Sequences.Building.sequenceFromArray
*^public fun DoubleArray.asSequence(): Sequence<Double> {
    if (isEmpty()) return emptySequence()
    return Sequence {
this.iterator() }
}
*^Creates a [Sequence] instance that wraps the original array returning
its elements when being iterated.
*^ @sample samples.collections.Sequences.Building.sequenceFromArray

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*\npublic fun BooleanArray.asSequence(): Sequence<Boolean> {\n  if (isEmpty()) return emptySequence()\n  return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning\n its elements when being iterated.\n */\n * @sample samples.collections.Sequences.Building.sequenceFromArray\n\n*\npublic fun CharArray.asSequence(): Sequence<Char> {\n  if (isEmpty()) return emptySequence()\n  return\n Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n\n*\n@kotlin.jvm.JvmName("averageOfByte")\n\npublic\n fun Array<out Byte>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this)\n  {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n\n*\n@kotlin.jvm.JvmName("averageOfShort")\n\npublic fun\n Array<out Short>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements\n in the array.\n\n*\n@kotlin.jvm.JvmName("averageOfInt")\n\npublic fun\n Array<out Int>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns\n an average value of elements\n in the array.\n\n*\n@kotlin.jvm.JvmName("averageOfLong")\n\npublic fun Array<out Long>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the\n array.\n\n*\n@kotlin.jvm.JvmName("averageOfFloat")\n\npublic fun Array<out Float>.average(): Double {\n  var\n sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the\n array.\n\n*\n@kotlin.jvm.JvmName("averageOfDouble")\n\npublic fun Array<out Double>.average(): Double {\n  var\n sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns\n an average value of elements in the array.\n\n*\n\npublic fun ByteArray.average(): Double {\n  var sum: Double =\n 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count\n == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n\n*\n\npublic\n fun ShortArray.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns\n an average value of elements in the array.\n\n*\n\npublic fun IntArray.average(): Double {\n  var sum: Double = 0.0\n  var\n count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0)\n Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n\n*\n\npublic fun\n LongArray.average(): Double {\n  var sum: Double\n = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if\n (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n\n*\n\npublic fun FloatArray.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in\n this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n\n*\n\npublic fun DoubleArray.average():\n Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    ++count\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements\n in the array.\n\n*\n@kotlin.jvm.JvmName("sumOfByte")\n\npublic fun Array<out Byte>.sum(): Int {\n  var sum:\n Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n\n*\n@kotlin.jvm.JvmName("sumOfShort")\n\npublic fun\n Array<out Short>.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return\n sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n\n*\n@kotlin.jvm.JvmName("sumOfInt")\n\npublic\n fun Array<out Int>.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return\n sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n\n*\n@kotlin.jvm.JvmName("sumOfLong")\n\npublic fun Array<out Long>.sum(): Long {\n  var sum: Long = 0L\n}

```

```

for (element in this) {
    sum += element
}
return sum
}

Returns the sum of all elements in the array.

@kotlin.jvm.JvmName("sumOfFloat")
public fun Array<out Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

Returns the sum of all elements in the array.

@kotlin.jvm.JvmName("sumOfDouble")
public fun Array<out Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

Returns the sum of all elements in the array.

public fun ByteArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

Returns the sum of all elements in the array.

public fun ShortArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

Returns the sum of all elements in the array.

public fun IntArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

Returns the sum of all elements in the array.

public fun LongArray.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

Returns the sum of all elements in the array.

public fun FloatArray.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

Returns the sum of all elements in the array.

public fun DoubleArray.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("RangesKt")
package kotlin.ranges

NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt

See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.random.*

Returns a random element from this range.

@throws IllegalArgumentException if this range is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun IntRange.random(): Int {
    return random(Random)
}

Returns a random element from this range.

@throws IllegalArgumentException if this range is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun LongRange.random(): Long {
    return random(Random)
}

Returns a random element from this range.

@throws IllegalArgumentException if this range is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun CharRange.random(): Char {
    return random(Random)
}

Returns a random element from this range using the specified source of randomness.

@throws IllegalArgumentException if this range is empty.

@SinceKotlin("1.3")
public fun IntRange.random(random: Random): Int {
    try {
        return random.nextInt(this)
    } catch (e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

Returns a random element from this range using the specified source of randomness.

@throws IllegalArgumentException if this range is empty.

@SinceKotlin("1.3")
public fun LongRange.random(random: Random): Long {
    try {
        return random.nextLong(this)
    } catch (e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

Returns a random element from this range using the specified source of randomness.

@throws IllegalArgumentException if this range is empty.

@SinceKotlin("1.3")
public fun CharRange.random(random: Random): Char {
    try {
        return random.nextInt(first.code, last.code + 1).toChar()
    } catch (e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

Returns a random element from this range, or `null` if this range is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun IntRange.randomOrNull(): Int? {
    return randomOrNull(Random)
}

Returns a random element from this range, or `null` if this range is empty.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun LongRange.randomOrNull(): Long? {
    return randomOrNull(Random)
}

Returns a

```

random element from this range, or `null` if this range is empty.

```

*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)n@kotlin.internal.InlineOnlynpublic
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random element from this range using the specified source of randomness, or `null` if this range is empty.n
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun
IntRange.randomOrNull(random: Random): Int? {n
    if (isEmpty())n        return nulln    return random.nextInt(this)n}n/n/**n * Returns a random element from this
range using the specified source of randomness, or `null` if this range is empty.n
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[element].n * n * Always returns `false` if the [element] is `null`.n
*\/n@SinceKotlin("1.3")n@kotlin.internal.InlineOnlynpublic inline operator
fun IntRange.contains(element: Int?): Boolean {n  return element != null && contains(element)n}n/n/**n *
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CharRange.contains(element: Char?): Boolean {n  return element != null && contains(element)n}n/n/**n *
Checks if the specified [value] belongs to this range.n *\/n@kotlin.jvm.JvmName("intRangeContains")npublic
operator fun ClosedRange<Int>.contains(value: Byte): Boolean {n  return contains(value.toInt())n}n/n/**n *
Checks if the specified [value]
belongs to this range.n *\/n@kotlin.jvm.JvmName("longRangeContains")npublic operator fun
ClosedRange<Long>.contains(value: Byte): Boolean {n  return contains(value.toLong())n}n/n/**n * Checks if
the specified [value] belongs to this range.n *\/n@kotlin.jvm.JvmName("shortRangeContains")npublic operator
fun ClosedRange<Short>.contains(value: Byte): Boolean {n  return contains(value.toShort())n}n/n/**n *
Checks if the specified [value] belongs to this range.n *\/n@Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.")n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =
"1.5")n@kotlin.jvm.JvmName("doubleRangeContains")npublic operator fun
ClosedRange<Double>.contains(value: Byte): Boolean {n  return contains(value.toDouble())n}n/n/**n *
Checks if the specified [value] belongs to this range.n *\/n@Deprecated("This `contains` operation mixing
integer and floating point arguments has ambiguous semantics and is going to be
removed.")n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =
"1.5")n@kotlin.jvm.JvmName("floatRangeContains")npublic operator fun ClosedRange<Float>.contains(value:
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value is greater than `this` value the returned progression is empty.

```

public infix fun Long.downTo(to: Byte): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Byte.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Short.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Char.downTo(to: Char): CharProgression {
    return CharProgression.fromClosedRange(this, to, -1)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Int.downTo(to: Int): IntProgression {
    return IntProgression.fromClosedRange(this, to, -1)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Long.downTo(to: Int): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

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public infix fun Byte.downTo(to: Int): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to, -1)
}

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\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

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public infix fun Short.downTo(to: Int): IntProgression {
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\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Int.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Long.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this, to, -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Byte.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Short.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), to, -1L)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Int.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this, to.toInt(), -1)
}

```

\* Returns a progression from this value down to the specified [to] value with the step -1. \* The [to] value should be less than or equal to `this` value. \* If the [to] value is greater than `this` value the returned progression is empty.

```

public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -1L)
}

```

\* Returns a progression from this value

down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Byte.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression from this value down to the specified [to] value with the step -1.\n \* \n \* The [to] value should be less than or equal to `this` value.\n \* If the [to] value is greater than `this` value the returned progression is empty.\n \*/\npublic infix fun Short.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun IntProgression.reversed(): IntProgression {\n return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun LongProgression.reversed(): LongProgression {\n return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range in the opposite direction with the same step.\n \*/\npublic fun CharProgression.reversed(): CharProgression {\n return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range with the given step.\n \*/\npublic infix fun IntProgression.step(step: Int): IntProgression {\n checkStepIsPositive(step > 0, step)\n return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range with the given step.\n \*/\npublic infix fun LongProgression.step(step: Long): LongProgression {\n checkStepIsPositive(step > 0, step)\n return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/\*\*\n \* Returns a progression that goes over the same range with the given step.\n \*/\npublic infix fun CharProgression.step(step: Int): CharProgression {\n checkStepIsPositive(step > 0, step)\n return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteArrayOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toInt()..Byte.MAX\_VALUE.toInt()) this.toByteArray() else null\n}\n\ninternal fun Long.toByteArrayOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toLong()..Byte.MAX\_VALUE.toLong()) this.toByteArray() else null\n}\n\ninternal fun Short.toByteArrayOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toShort()..Byte.MAX\_VALUE.toShort()) this.toByteArray() else null\n}\n\ninternal fun Double.toByteArrayOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toDouble()..Byte.MAX\_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun Float.toByteArrayOrNull(): Byte? {\n return if (this in Byte.MIN\_VALUE.toFloat()..Byte.MAX\_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun Long.toIntExactOrNull(): Int? {\n return if (this in Int.MIN\_VALUE.toLong()..Int.MAX\_VALUE.toLong()) this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in Int.MIN\_VALUE.toDouble()..Int.MAX\_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun Float.toIntExactOrNull(): Int? {\n return if (this in Int.MIN\_VALUE.toFloat()..Int.MAX\_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n return if (this in Long.MIN\_VALUE.toDouble()..Long.MAX\_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun Float.toLongExactOrNull(): Long? {\n return if (this in Long.MIN\_VALUE.toFloat()..Long.MAX\_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun Int.toShortExactOrNull(): Short? {\n return if (this in Short.MIN\_VALUE.toInt()..Short.MAX\_VALUE.toInt()) this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n return if (this in Short.MIN\_VALUE.toLong()..Short.MAX\_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun Double.toShortExactOrNull(): Short? {\n return if (this in Short.MIN\_VALUE.toDouble()..Short.MAX\_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun Float.toShortExactOrNull(): Short? {\n return if (this in Short.MIN\_VALUE.toFloat()..Short.MAX\_VALUE.toFloat()) this.toInt().toShort() else null\n}\n\n/\*\*\n \* Returns



a range from this value up to but excluding the specified [to] value.  
 If the [to] value is less than or equal to this value, then the returned range is empty.

```

  public infix fun Int.until(to: Byte): IntRange {
    return this .. (to.toInt() - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Long.until(to: Byte): LongRange {
    return this .. (to.toLong() - 1).toLong()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Byte.until(to: Byte): IntRange {
    return this.toInt() .. (to.toInt() - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Short.until(to: Byte): IntRange {
    return this.toInt() .. (to.toInt() - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Char.until(to: Char): CharRange {
    if (to <= '\u0000') return CharRange.EMPTY
    return this .. (to - 1).toChar()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Int.until(to: Int): IntRange {
    if (to <= Int.MIN_VALUE) return IntRange.EMPTY
    return this .. (to - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Long.until(to: Int): LongRange {
    return this .. (to.toLong() - 1).toLong()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Byte.until(to: Int): IntRange {
    if (to <= Int.MIN_VALUE) return IntRange.EMPTY
    return this.toInt() .. (to - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Short.until(to: Int): IntRange {
    if (to <= Int.MIN_VALUE) return IntRange.EMPTY
    return this.toInt() .. (to - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Int.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this.toLong() .. (to - 1).toLong()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Long.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this .. (to - 1).toLong()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Byte.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this.toLong() .. (to - 1).toLong()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Short.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this.toLong() .. (to - 1).toLong()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Int.until(to: Short): IntRange {
    return this .. (to.toInt() - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Long.until(to: Short): LongRange {
    return this .. (to.toLong() - 1).toLong()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Byte.until(to: Short): IntRange {
    return this.toInt() .. (to.toInt() - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  public infix fun Short.until(to: Short): IntRange {
    return this.toInt() .. (to.toInt() - 1).toInt()
  }
  Returns a range from this value up to but excluding the specified [to] value.
  If the [to] value is less than or equal to this value, then the returned range is empty.
  
```

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1).toInt()\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this
value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastComparable\n *\npublic fun <T : Comparable<T>>
T.coerceAtLeast(minimumValue: T): T {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater
than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n *\npublic fun Byte.coerceAtLeast(minimumValue: Byte):
Byte {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n
*\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n    return if (this < minimumValue)
minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n
* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n *
@sample samples.comparisons.ComparableOps.coerceAtLeast\n *\npublic fun Int.coerceAtLeast(minimumValue:
Int): Int {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not
less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the
[minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n *\npublic fun Long.coerceAtLeast(minimumValue: Long):
Long {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n
* \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n *\npublic fun
Float.coerceAtLeast(minimumValue: Float): Float {\n    return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n *\npublic fun Double.coerceAtLeast(minimumValue:
Double): Double {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this
value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostComparable\n *\npublic fun <T : Comparable<T>>
T.coerceAtMost(maximumValue: T): T {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less
than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Byte.coerceAtMost(maximumValue: Byte):
Byte {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Short.coerceAtMost(maximumValue: Short):
Short {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n
*\npublic fun Int.coerceAtMost(maximumValue: Int): Int {\n    return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return
this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Long.coerceAtMost(maximumValue: Long):
Long {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not

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greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun Float.coerceAtMost(maximumValue: Float):
Float {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n
* \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n
* @sample samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun
Double.coerceAtMost(maximumValue: Double): Double {\n    return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n
* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInComparable\n * \n public fun <T : Comparable<T>>
T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n    if (minimumValue !== null && maximumValue !==
null) {\n        if (minimumValue > maximumValue) throw IllegalArgumentException("\n        Cannot coerce value to an
empty range: maximum $maximumValue is less than minimum $minimumValue.\n    )\n        if (this <
minimumValue)
return minimumValue\n        if (this > maximumValue) return maximumValue\n    }\n    else {\n        if
(minimumValue !== null && this < minimumValue) return minimumValue\n        if (maximumValue !== null &&
this > maximumValue) return maximumValue\n    }\n    return this\n}\n\n/**\n * Ensures that this value lies in the
specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n * \n public fun
Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {\n    if (minimumValue > maximumValue)
throw IllegalArgumentException("\n    Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n    )\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n *
Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if
it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is
greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n * \n public fun
Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {\n    if (minimumValue > maximumValue)
throw IllegalArgumentException("\n    Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n    )\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n
* \n public fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {\n    if (minimumValue >
maximumValue) throw IllegalArgumentException("\n    Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.\n    )\n    if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the
specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n * \n public fun
Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n    if (minimumValue > maximumValue)
throw IllegalArgumentException("\n    Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n    )\n    if (this < minimumValue)
return minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures
that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in

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the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater
than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n * \n\npublic fun
Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {\n    if (minimumValue > maximumValue)
throw IllegalArgumentException("\Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue],
or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n * \n\npublic fun Double.coerceIn(minimumValue: Double,
maximumValue: Double): Double {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("\Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInFloatingPointRange\n * \n\n@SinceKotlin("1.1")\n\npublic fun <T :
Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n    if (range.isEmpty()) throw
IllegalArgumentException("\Cannot
coerce value to an empty range: $range.\")\n    return when {\n        // this < start equiv to this <= start && !(this >=
start)\n        range.lessThanOrEquals(this, range.start) && !range.lessThanOrEquals(range.start, this) ->
range.start\n        // this > end equiv to this >= end && !(this <= end)\n        range.lessThanOrEquals(range.endInclusive, this) && !range.lessThanOrEquals(this, range.endInclusive) ->
range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInComparable\n * \n\npublic fun <T : Comparable<T>>
T.coerceIn(range: ClosedRange<T>): T {\n    if (range is ClosedFloatingPointRange) {\n        return
this.coerceIn<T>(range)\n    }\n    if (range.isEmpty()) throw
IllegalArgumentException("\Cannot coerce value to an empty range: $range.\")\n    return when {\n        this <
range.start -> range.start\n        this > range.endInclusive -> range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start`
if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n *
@sample samples.comparisons.ComparableOps.coerceIn\n * \n\npublic fun Int.coerceIn(range: ClosedRange<Int>):
Int {\n    if (range is ClosedFloatingPointRange) {\n        return this.coerceIn<Int>(range)\n    }\n    if
(range.isEmpty()) throw IllegalArgumentException("\Cannot coerce value to an empty range: $range.\")\n    return
when {\n        this < range.start -> range.start\n        this > range.endInclusive -> range.endInclusive\n        else ->
this\n    }\n}\n\n/**\n * Ensures that this value lies
in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n * \n\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long
{\n    if (range is ClosedFloatingPointRange) {\n        return this.coerceIn<Long>(range)\n    }\n    if
(range.isEmpty()) throw IllegalArgumentException("\Cannot coerce value to an empty range: $range.\")\n    return
when {\n        this < range.start -> range.start\n        this > range.endInclusive -> range.endInclusive\n        else ->
this\n    }\n}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport

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kotlin.jvm.*\n\n@SinceKotlin("1.5")\n\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\n@JvmInline\n\npublic value class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) :
Comparable<UByte> {\n\n    companion object {\n        /**\n         * A constant holding the minimum value an
instance of UByte can have.\n        */\n        public const val MIN_VALUE: UByte = UByte(0)\n\n        /**\n         *
A constant holding the maximum value an instance of UByte can have.\n        */\n        public const val
MAX_VALUE: UByte = UByte(-1)\n\n        /**\n         * The number of bytes used to represent an instance of
UByte in a binary form.\n        */\n        public const val SIZE_BYTES: Int = 1\n\n        /**\n         * The number of
bits used to represent an instance of UByte in a binary form.\n        */\n        public const val SIZE_BITS: Int = 8
}\n\n        /**\n         * Compares this value with the specified value for order.\n         * Returns
zero if this value is equal to the specified other value, a negative number if it's less than other,\n         * or a positive
number if it's greater than other.\n        */\n        @kotlin.internal.InlineOnly\n        @Suppress("OVERRIDE_BY_INLINE")\n        public override inline operator fun compareTo(other: UByte): Int =
this.toInt().compareTo(other.toInt())\n\n        /**\n         * Compares this value with the specified value for order.\n         *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n         * or a
positive number if it's greater than other.\n        */\n        @kotlin.internal.InlineOnly\n        public inline operator fun
compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n        /**\n         * Compares this value with the
specified value for order.\n         * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n         * or a positive number if it's greater than other.\n        */\n        @kotlin.internal.InlineOnly\n        public inline operator fun compareTo(other: UInt): Int =
this.toUInt().compareTo(other)\n\n        /**\n         * Compares this value with the specified value for order.\n         *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n         * or a
positive number if it's greater than other.\n        */\n        @kotlin.internal.InlineOnly\n        public inline operator fun
compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n        /** Adds the other value to this value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toInt())\n\n        /** Adds the other value to this value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n        /** Adds the other value
to this value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n\n        /** Adds the other value to this value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n        /** Subtracts the other
value from this value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toInt())\n\n        /** Subtracts the other value from this value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())\n\n        /** Subtracts the other value from this value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n\n        /** Subtracts the other value from this value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n        /** Multiplies this value by the other value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toInt())\n\n        /** Multiplies this
value by the other value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n\n        /** Multiplies this value by the other value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n\n        /** Multiplies this value by the other value. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n        /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n        @kotlin.internal.InlineOnly\n        public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toInt())\n\n        /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n        @kotlin.internal.InlineOnly\n        public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n\n        /** Divides this value
by the other value, truncating the result to an integer that is closer to zero. */\n        @kotlin.internal.InlineOnly\n

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public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\n /** Divides this value by the other
value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline
operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /**\n * Calculates the remainder of
truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is
always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UShort): UInt = this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of
this value by the other value.\n * \n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**\n
* Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always
less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong):
ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the
remainder of flooring division of this value by the other value.\n * \n * The result is always less than the
divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n
/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is
always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.toUInt().mod(other)\n /**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of
flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun
mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n
*/\n @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
inc(): UByte = UByte(data.inc())\n\n /**\n * Returns this value decremented by one.\n */\n @sample samples.misc.Builtins.dec\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun dec(): UByte = UByte(data.dec())\n\n /** Creates a
range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND
operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UByte):
UByte = UByte(this.data and other.data)\n\n /** Performs a bitwise OR operation between the two values. */\n

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@kotlin.internal.InlineOnly\n public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n
/** Performs a bitwise XOR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline
infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)\n
/** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public inline fun inv(): UByte =
UByte(data.inv())\n\n /**\n * Converts this [UByte] value to [Byte].\n * If this value is less than or
equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this
`UByte`. Otherwise the result is negative.\n * The resulting `Byte` value has the same binary representation
as this `UByte` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data\n /**\n
* Converts this [UByte] value to [Short].\n * The resulting `Short` value represents the same numerical
value as this `UByte`.\n * The least significant 8 bits of the resulting `Short` value are the same as the bits
of this `UByte` value,\n * whereas the most significant 8 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toShort():
Short = data.toShort() and 0xFF\n /**\n * Converts this [UByte] value to [Int].\n * The resulting `Int`
value represents the same numerical value as this `UByte`.\n * The least significant 8 bits of the resulting
`Int` value are the same as the bits of this `UByte` value,\n * whereas the most significant 24 bits are filled with
zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFF\n /**\n
* Converts this [UByte] value to [Long].\n * The resulting `Long` value represents the same numerical value
as this `UByte`.\n * The least significant 8 bits of the resulting `Long` value are the same as the bits of this
`UByte` value,\n * whereas the most significant 56 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFF\n\n /** Returns this
value. */\n @kotlin.internal.InlineOnly\n public
inline fun toUByte(): UByte = this\n /**\n * Converts this [UByte] value to [UShort].\n * The
resulting `UShort` value represents the same numerical value as this `UByte`.\n * The least significant 8
bits of the resulting `UShort` value are the same as the bits of this `UByte` value,\n * whereas the most significant
8 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort =
UShort(data.toShort() and 0xFF)\n /**\n * Converts this [UByte] value to [UInt].\n * The resulting
`UInt` value represents the same numerical value as this `UByte`.\n * The least significant 8 bits of the
resulting `UInt` value are the same as the bits of this `UByte` value,\n * whereas the most significant 24 bits are
filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and
0xFF)\n /**\n * Converts this [UByte] value
to [ULong].\n * The resulting `ULong` value represents the same numerical value as this `UByte`.\n *
The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `UByte` value,\n *
whereas the most significant 56 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline
fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n\n /**\n * Converts this [UByte] value to [Float].\n
* The resulting `Float` value represents the same numerical value as this `UByte`.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n /**\n * Converts this
[UByte] value to [Double].\n * The resulting `Double` value represents the same numerical value as this
`UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n\n\n /**\n
* Converts this [Byte] value to [UByte].\n * If this value is positive, the resulting `UByte` value represents the
same numerical value as this `Byte`.\n * The resulting `UByte` value has the same binary representation as this
`Byte` value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Byte.toUByte(): UByte = UByte(this)\n /**\n * Converts this [Short] value to [UByte].\n * If
this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n *
the same numerical value as this `Short`.\n * The resulting `UByte` value is represented by the least significant 8
bits of this `Short` value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n

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public inline fun Short.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n *\n * If this value
is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `Int`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this
`Int` value.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value
represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UByte` value is represented by the
least significant 8 bits of this `Long` value.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Long.toUByte(): UByte = UByte(this.toByte())\n"/**\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npub
lic value class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) :
Comparable<UInt> {\n\n    companion object {\n\n        /**\n         * A constant holding the minimum value an
instance of UInt can have.\n         *\n         * public const val MIN_VALUE: UInt = UInt(0)\n\n        /**\n         * A
constant holding the maximum value an instance of UInt can have.\n         *\n         * public const val MAX_VALUE:
UInt = UInt(-1)\n\n        /**\n         * The number of bytes used to represent an instance of UInt in a binary form.\n
         *\n         * public const val SIZE_BYTES: Int = 4\n\n        /**\n         * The number of bits used
to represent an instance of UInt in a binary form.\n         *\n         * public const val SIZE_BITS: Int = 32\n    }\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the
specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n
     *\n     * @kotlin.internal.InlineOnly\n     * public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toUInt())\n\n     /**\n     * Compares this value with the specified value for order.\n     *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a
positive number if it's greater than other.\n     *\n     * @kotlin.internal.InlineOnly\n     * public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n     /**\n     * Compares this value with the
specified value for order.\n     * Returns zero if this value
is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's
greater than other.\n     *\n     * @kotlin.internal.InlineOnly\n     * @Suppress("OVERRIDE_BY_INLINE")\n     * public
inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)\n\n     /**\n     *
Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     *\n
     * @kotlin.internal.InlineOnly\n     * public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other)\n\n     /** Adds the other value to this value. *\n     * @kotlin.internal.InlineOnly\n
     * public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\n\n     /** Adds the other value to this
value. *\n     * @kotlin.internal.InlineOnly\n     * public inline operator fun plus(other:
UShort): UInt = this.plus(other.toUInt())\n\n     /** Adds the other value to this value. *\n     * @kotlin.internal.InlineOnly\n
     * public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\n\n     /** Adds the other value to this value. *\n     * @kotlin.internal.InlineOnly\n
     * public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n     /** Subtracts the other value from this value. *\n     * @kotlin.internal.InlineOnly\n
     * public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\n\n     /** Subtracts the other value from this value. *\n     * @kotlin.internal.InlineOnly\n
     * public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())\n\n     /** Subtracts the other value from this value. *\n     * @kotlin.internal.InlineOnly\n
     * public inline operator fun minus(other: UInt): UInt =

```



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UInt(this.data.minus(other.data))\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n
    public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this
value by the other value. */\n @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte): UInt
= this.times(other.toUInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
    public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())\n /** Multiplies this value by the
other value. */\n @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UInt): UInt =
UInt(this.data.times(other.data))\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UByte):
UInt = this.div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UShort): UInt =
this.div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UInt): UInt = uintDivide(this,
other)\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n
@kotlin.internal.InlineOnly\n    public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n    public
inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n
/**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result
is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n    public inline operator fun rem(other:
UShort): UInt = this.rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value
by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n
    public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\n /**\n * Calculates the
remainder of truncating division of this value by the other value.\n * \n * The result is always less than the
divisor.\n */\n @kotlin.internal.InlineOnly\n    public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n * \n
* For unsigned types, the results of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n    public inline fun floorDiv(other: UByte): UInt = this.floorDiv(other.toUInt())\n
/**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n
* \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n    public inline fun floorDiv(other: UShort): UInt = this.floorDiv(other.toUInt())\n
/**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n
* \n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n    public inline fun floorDiv(other: UInt): UInt = div(other)\n /**\n * Divides this
value by the other value, flooring the result
to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n    public inline fun floorDiv(other:
ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of flooring division of
this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned
types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n    public inline fun mod(other: UByte): UByte = this.mod(other.toUInt()).toUByte()\n
/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is
always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n

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    public inline fun mod(other: UShort): UShort = this.mod(other.toUInt()).toUShort()\n    /**\n     * Calculates the remainder of flooring division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     * \n     * For unsigned types, the remainders of flooring division and truncating division are the same.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun mod(other: UInt): UInt = rem(other)\n    /**\n     * Calculates the remainder of flooring division of this value by the other value.\n     * \n     * The result is always less than the divisor.\n     * \n     * For unsigned types, the remainders of flooring division and truncating division are the same.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n    /**\n     * Returns this value incremented by one.\n     */\n    @sample\n    samples.misc.Builtins.inc\n    @kotlin.internal.InlineOnly\n    public inline operator fun inc(): UInt = UInt(data.inc())\n    /**\n     * Returns this value decremented by one.\n     */\n    @sample\n    samples.misc.Builtins.dec\n    @kotlin.internal.InlineOnly\n    public inline operator fun dec(): UInt = UInt(data.dec())\n    /**\n     * Creates a range from this value to the specified [other] value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this, other)\n    /**\n     * Shifts this value left by the [bitCount] number of bits. \n     * \n     * Note that only the five lowest-order bits of the [bitCount] are used as the shift distance. \n     * \n     * The shift distance actually used is therefore always in the range `0..31`.\n     */\n    @kotlin.internal.InlineOnly\n    public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n    /**\n     * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. \n     * \n     * Note that only the five lowest-order bits of the [bitCount] are used as the shift distance. \n     * \n     * The shift distance actually used is therefore always in the range `0..31`.\n     */\n    @kotlin.internal.InlineOnly\n    public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n    /**\n     * Performs a bitwise AND operation between the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun and(other: UInt): UInt = UInt(this.data and other.data)\n    /**\n     * Performs a bitwise OR operation between the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\n    /**\n     * Performs a bitwise XOR operation between the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n    /**\n     * Inverts the bits in this value. */\n    @kotlin.internal.InlineOnly\n    public inline fun inv(): UInt = UInt(data.inv())\n    /**\n     * Converts this [UInt] value to [Byte]. \n     * \n     * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents \n     * the same numerical value as this `UInt`. \n     * \n     * The resulting `Byte` value is represented by the least significant 8 bits of this `UInt` value. \n     * \n     * Note that the resulting `Byte` value may be negative.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toByte(): Byte = data.toByte()\n    /**\n     * Converts this [UInt] value to [Short]. \n     * \n     * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents \n     * the same numerical value as this `UInt`. \n     * \n     * The resulting `Short` value is represented by the least significant 16 bits of this `UInt` value. \n     * \n     * Note that the resulting `Short` value may be negative.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toShort(): Short = data.toShort()\n    /**\n     * Converts this [UInt] value to [Int]. \n     * \n     * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents \n     * the same numerical value as this `UInt`. \n     * \n     * Otherwise the result is negative. \n     * \n     * The resulting `Int` value has the same binary representation as this `UInt` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toInt(): Int = data\n    /**\n     * Converts this [UInt] value to [Long]. \n     * \n     * The resulting `Long` value represents the same numerical value as this `UInt`. \n     * \n     * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value, \n     * \n     * whereas the most significant 32 bits are filled with zeros.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\n    /**\n     * Converts this [UInt] value to [UByte]. \n     * \n     * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents \n     * the same numerical value as this `UInt`. \n     * \n     * The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toUByte(): UByte = data.toUByte()\n    /**\n     * Converts this [UInt] value to [UShort]. \n     * \n     * If

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this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents
 * the same
numerical value as this `UInt`.
 *
 * The resulting `UShort` value is represented by the least significant 16
bits of this `UInt` value.
 *
 * @kotlin.internal.InlineOnly
public inline fun toUShort(): UShort =
data.toUShort()
/** Returns this value.
 *
 * @kotlin.internal.InlineOnly
public inline fun toUInt(): UInt =
this
/**
 * Converts this [UInt] value to [ULong].
 *
 * The resulting `ULong` value represents the
same numerical value as this `UInt`.
 *
 * The
least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,
 * whereas
the most significant 32 bits are filled with zeros.
 *
 * @kotlin.internal.InlineOnly
public inline fun
toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)
/**
 * Converts this [UInt] value to
[Float].
 *
 * The resulting value is the closest `Float` to this `UInt` value.
 * In case when this `UInt`
value is exactly between two `Float`s,
 * the one with zero at least significant bit of mantissa is selected.
 *
 * @kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toDouble().toFloat()
/**
 * Converts
this [UInt] value to [Double].
 *
 * The resulting `Double` value represents the same numerical value as this
`UInt`.
 *
 * @kotlin.internal.InlineOnly
public inline fun toDouble(): Double = UInt.toDouble(data)
public override fun toString(): String = toLong().toString()
}

/**
 * Converts this [Byte] value to [UInt].
 *
 * If this value is positive, the resulting `UInt` value represents the same
numerical value as this `Byte`.
 *
 * The least significant 8 bits of the resulting `UInt` value are the same as the
bits of this `Byte` value,
 * whereas the most significant 24 bits are filled with the sign bit of this value.
 *
 * @SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Byte.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Short] value to [UInt].
 *
 * If
this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.
 *
 * The least
significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,
 * whereas the most
significant 16 bits are filled with the sign bit of this value.
 *
 * @SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public
inline fun Short.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Int] value to [UInt].
 *
 * If this value
is positive, the resulting `UInt` value represents the same numerical value as this `Int`.
 *
 * The resulting `UInt`
value has the same binary representation as this `Int` value.
 *
 * @SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Int.toUInt(): UInt = UInt(this)
/**
 * Converts this [Long] value to [UInt].
 *
 * If this value
is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents
 * the same
numerical value as this `Long`.
 *
 * The resulting `UInt` value is represented by the least significant 32 bits of
this `Long` value.
 *
 * @SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Long.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts
this [Float] value to [UInt].
 *
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if
this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.
 *
 * @SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())
/**
 * Converts this [Double] value to
[UInt].
 *
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Double` value is
negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.
 *
 * @SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Double.toUInt(): UInt = doubleToUInt(this)
"
/**
 * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt
file.
 *
 * // Auto-generated file. DO NOT EDIT!
 *
 * package kotlin
 *
 * import kotlin.experimental.
 *
 * import
kotlin.jvm.
 *
 * @SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@JvmInline
public value class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) :

```

```

Comparable<UShort> {
    companion object {
        /**
         * A constant holding the minimum value an
         instance of UShort can have.
        */
        public const val MIN_VALUE: UShort = UShort(0)
        /**
         * A constant holding the maximum value an instance of UShort can have.
        */
        public const val MAX_VALUE: UShort = UShort(-1)
        /**
         * The number of bytes used to represent an instance of
         UShort in a binary form.
        */
        public const val SIZE_BYTES: Int = 2
        /**
         * The number of
         bits used to represent an instance of UShort in a binary form.
        */
        public const val SIZE_BITS: Int = 16
    }

    /**
     * Compares this value with the specified value for order.
     * Returns
     zero if this value is equal to the specified other value, a negative number if it's less than other,
     * or a positive
     number if it's greater than other.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())
    /**
     * Compares this value with the
     specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if
     it's less than other,
     * or a positive number if it's greater than other.
    */
    @kotlin.internal.InlineOnly
    @Suppress("OVERRIDE_BY_INLINE")
    public override inline operator fun compareTo(other: UShort): Int =
    this.toInt().compareTo(other.toInt())
    /**
     * Compares this value with the specified value for order.
     *
     Returns zero if this value is equal to the specified other
     value, a negative number if it's less than other,
     * or a positive number if it's greater than other.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UInt): Int =
    this.toUInt().compareTo(other)
    /**
     * Compares this value with the specified value for order.
     *
     Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
     * or a
     positive number if it's greater than other.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)
    /**
     * Adds the other value to this value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UByte): UInt =
    this.toUInt().plus(other.toUInt())
    /**
     * Adds the other value to this value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())
    /**
     * Adds the
     other value to this value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UInt): UInt =
    this.toUInt().plus(other)
    /**
     * Adds the other value to this value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)
    /**
     * Subtracts the other value from
     this value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UByte): UInt =
    this.toUInt().minus(other.toUInt())
    /**
     * Subtracts the other value from this value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UShort): UInt =
    this.toUInt().minus(other.toUInt())
    /**
     * Subtracts the other value from this value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)
    /**
     * Subtracts the other value from this value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: ULong):
    ULong = this.toULong().minus(other)
    /**
     * Multiplies this value by the other value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UByte): UInt =
    this.toUInt().times(other.toUInt())
    /**
     * Multiplies this value by the other value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UShort): UInt =
    this.toUInt().times(other.toUInt())
    /**
     * Multiplies this value by the other value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)
    /**
     * Multiplies this value by the other value.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: ULong): ULong = this.toULong().times(other)
    /**
     * Divides this value by the other value,
     truncating the result to an integer that is closer to zero.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())
    /**
     * Divides this value by the other value, truncating the result to an integer that is closer to zero.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UShort): UInt =
    this.toUInt().div(other.toUInt())
    /**
     * Divides this value by the other value, truncating the result to an integer that
     is closer to zero.
    */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UInt): UInt =

```

```

this.toUInt().div(other)\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n /**\n *
Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is always
less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt
= this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**\n * Calculates the remainder of
truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n * \n * For
unsigned types, the results of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): UInt =
this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other:
UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this value by the other value, flooring
the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring
division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun
floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results
of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline
fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n
* For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.toUInt().mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this
value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n /**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n
* For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n
/**\n * Returns this value incremented by one.\n * \n * @sample samples.misc.Builtins.inc\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UShort = UShort(data.inc())\n\n /**\n
* Returns this value decremented by one.\n * \n * @sample samples.misc.Builtins.dec\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort = UShort(data.dec())\n\n /** Creates a
range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND
operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UShort):
UShort = UShort(this.data and other.data)\n\n /** Performs a bitwise OR operation between the two values. */\n

```

```

@kotlin.internal.InlineOnly\n public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n
/** Performs a bitwise XOR operation between the two values.
*\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UShort): UShort = UShort(this.data xor
other.data)\n /** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public inline fun inv():
UShort = UShort(data.inv())\n\n /**\n * Converts this [UShort] value to [Byte].\n * \n * If this value is less
than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this
`UShort`.\n * \n * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort`
value.\n * Note that the resulting `Byte` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public
inline fun toByte(): Byte = data.toByte()\n\n /**\n * Converts this [UShort] value to [Short].\n * \n * If this
value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same
numerical value as this `UShort`. Otherwise the
result is negative.\n * \n * The resulting `Short` value has the same binary representation as this `UShort`
value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data\n\n /**\n * Converts
this [UShort] value to [Int].\n * \n * The resulting `Int` value represents the same numerical value as this
`UShort`.\n * \n * The least significant 16 bits of the resulting `Int` value are the same as the bits of this
`UShort` value,\n * whereas the most significant 16 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFFFF\n\n /**\n * Converts this
[UShort] value to [Long].\n * \n * The resulting `Long` value represents the same numerical value as this
`UShort`.\n * \n * The least significant 16 bits of the resulting `Long` value are the same as the bits of this
`UShort` value,\n * whereas the most significant 48 bits are filled with
zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFFFF\n\n
/**\n * Converts this [UShort] value to [UByte].\n * \n * If this value is less than or equals to
[UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `UShort`.\n
*\n * The resulting `UByte` value is represented by the least significant 8 bits of this `UShort` value.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n\n /** Returns this value. */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n\n /**\n * Converts this [UShort]
value to [UInt].\n * \n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n
*\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n
*\n * whereas the most significant 16 bits are filled
with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and
0xFFFF)\n\n /**\n * Converts this [UShort] value to [ULong].\n * \n * The resulting `ULong` value
represents the same numerical value as this `UShort`.\n * \n * The least significant 16 bits of the resulting
`ULong` value are the same as the bits of this `UShort` value,\n * whereas the most significant 48 bits are filled
with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong()
and 0xFFFF)\n\n /**\n * Converts this [UShort] value to [Float].\n * \n * The resulting `Float` value
represents the same numerical value as this `UShort`.\n */\n @kotlin.internal.InlineOnly\n public inline fun
toFloat(): Float = this.toInt().toFloat()\n\n /**\n * Converts this [UShort] value to [Double].\n * \n * The
resulting `Double` value represents the same numerical value as
this `UShort`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n}\n\n/**\n * Converts this
[Byte] value to [UShort].\n * \n * If this value is positive, the resulting `UShort` value represents the same numerical
value as this `Byte`.\n * \n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`Byte` value,\n * whereas the most significant 8 bits are filled with the sign bit of this value.\n
*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n\n /**\n * Converts this [Short] value to
[UShort].\n * \n * If this value is positive, the resulting `UShort` value represents the same numerical value as this
`Short`.\n * \n * The resulting `UShort` value has the same binary representation as this `Short` value.\n
*/

```

```

*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly\
npublic inline fun Short.toUShort(): UShort = UShort(this)^@n/**\n * Converts this [Int] value to [UShort].\n *\n * If
this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n *
the same numerical value as this `Int`.\n *\n * The resulting `UShort` value is represented by the least significant 16
bits of this `Int` value.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly\
npublic inline fun Int.toUShort(): UShort = UShort(this.toShort())^@n/**\n * Converts this [Long] value to
[UShort].\n *\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort`
value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UShort` value is represented by
the least significant 16 bits of this `Long` value.\n
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalUnsignedTypes::class)^@kotlin.internal.InlineOnly\
npublic
inline fun Long.toUShort(): UShort = UShort(this.toShort())^@n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n/**\n * A range of values of type `Char`.\n */\npublic class CharRange(start: Char, endInclusive:
Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\n    override val start: Char get() = first\n
override val endInclusive: Char get() = last\n\n    override fun contains(value: Char): Boolean = first <= value &&
value <= last\n\n    /**\n     * Checks whether the range is empty.\n     *\n     * The range is empty if its start value is
greater than the end value.\n     */\n    override fun isEmpty(): Boolean = first > last\n\n
    override fun equals(other: Any?): Boolean =\n        other is CharRange && (isEmpty() && other.isEmpty() ||\n
first == other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 *
first.code + last.code)\n\n    override fun toString(): String = "$first..$last"\n\n    companion object {\n
/**\n     * An empty range of values of type Char.\n     */\n        public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n
}\n}\n/**\n * A range of values of type `Int`.\n */\npublic class IntRange(start: Int, endInclusive: Int) :
IntProgression(start, endInclusive, 1), ClosedRange<Int> {\n    override val start: Int get() = first\n    override val
endInclusive: Int get() = last\n\n    override fun contains(value: Int): Boolean = first <= value && value <= last\n\n
/**\n     * Checks whether the range is empty.\n     *\n     * The range is empty if its start value is greater than the
end value.\n     */\n    override fun isEmpty():
Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is IntRange && (isEmpty()
&& other.isEmpty() ||\n        first == other.first && last == other.last)\n\n    override fun hashCode(): Int =\n
if (isEmpty()) -1 else (31 * first + last)\n\n    override fun toString(): String = "$first..$last"\n\n    companion object
{\n        /**\n         * An empty range of values of type Int.\n         */\n        public val EMPTY: IntRange = IntRange(1, 0)\n
}\n}\n/**\n * A range of values of type `Long`.\n */\npublic class LongRange(start: Long, endInclusive: Long) :
LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n    override val start: Long get() = first\n    override
val endInclusive: Long get() = last\n\n    override fun contains(value: Long): Boolean = first <= value && value <=
last\n\n    /**\n     * Checks whether the range is empty.\n     *\n     * The range is empty if its start value is greater
than the end value.\n     */\n    override fun
isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is LongRange &&
(isEmpty() && other.isEmpty() ||\n        first == other.first && last == other.last)\n\n    override fun hashCode(): Int
=\n        if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n\n    override fun
toString(): String = "$first..$last"\n\n    companion object {\n        /**\n         * An empty range of values of type Long.\n         */\n
        public val EMPTY: LongRange = LongRange(1, 0)\n    }\n}\n"/**\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*^@n@file:kotlin.jvm.JvmMultifileClass^@file:kotlin.jvm.JvmName("CollectionsKt")^@file:OptIn(kotlin.exper
imental.ExperimentalTypeInference::class)^@npackage kotlin.collections\nimport kotlin.contracts.*\nimport
kotlin.random.Random\n\ninternal

```

```

object EmptyIterator : ListIterator<Nothing> {
    override fun hasNext(): Boolean = false
    override fun hasPrevious(): Boolean = false
    override fun nextIndex(): Int = 0
    override fun previousIndex(): Int = -1
    override fun next(): Nothing = throw NoSuchElementException()
    override fun previous(): Nothing = throw NoSuchElementException()
}

internal object EmptyList : List<Nothing>, Serializable, RandomAccess {
    private const val serialVersionUID: Long = -7390468764508069838L
    override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()
    override fun hashCode(): Int = 1
    override fun toString(): String = "[]"
    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()
    override fun get(index: Int): Nothing = throw IndexOutOfBoundsException("Empty list doesn't contain element at index $index.")
    override fun indexOf(element: Nothing): Int = -1
    override fun lastIndexOf(element: Nothing): Int = -1
    override fun iterator(): Iterator<Nothing> = EmptyIterator
    override fun listIterator(): ListIterator<Nothing> = EmptyIterator
    override fun listIterator(index: Int): ListIterator<Nothing> {
        if (index != 0) throw IndexOutOfBoundsException("Index: $index")
        return EmptyIterator
    }
    override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {
        if (fromIndex == 0 && toIndex == 0) return this
        throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")
    }
    private fun readResolve(): Any = EmptyList
}

internal fun <T> Array<out T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)

private class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {
    override val size: Int get() = values.size
    override fun isEmpty(): Boolean = values.isEmpty()
    override fun contains(element: T): Boolean = values.contains(element)
    override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }
    override fun iterator(): Iterator<T> = values.iterator()
    // override hidden toArray implementation to prevent copying of values array
    public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)
}

/**
 * Returns an empty read-only list. The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.emptyReadOnlyList
 */
public fun <T> emptyList(): List<T> = EmptyList

/**
 * Returns a new read-only list of given elements. The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.readOnlyList
 */
public fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()

/**
 * Returns an empty read-only list. The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.emptyReadOnlyList
 */
@kotlin.internal.InlineOnly
public inline fun <T> listOf(): List<T> = emptyList()

/**
 * Returns an empty new [MutableList].
 * @sample samples.collections.Collections.Lists.emptyMutableList
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> mutableListOf(): MutableList<T> = ArrayList()

/**
 * Returns an empty new [ArrayList].
 * @sample samples.collections.Collections.Lists.emptyArrayList
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> arrayListOf(): ArrayList<T> = ArrayList()

/**
 * Returns a new [MutableList] with the given elements.
 * @sample samples.collections.Collections.Lists.mutableList
 */
public fun <T> mutableListOf(vararg elements: T): MutableList<T> = if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))

/**
 * Returns a new [ArrayList] with the given elements.
 * @sample samples.collections.Collections.Lists.arrayList
 */
public fun <T> arrayListOf(vararg elements: T): ArrayList<T> = if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))

/**
 * Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.listOfNotNull
 */
public fun <T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()

/**
 * Returns a new read-only list only of those given elements, that are not null. The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.listOfNotNull
 */
public fun <T : Any> listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()

/**
 * Creates a new read-only list with the specified

```



[size], where each element is calculated by calling the specified [init] function. The function [init] is called for each list element sequentially starting from the first one. It should return the value for a list element given its index.

@sample samples.collections.Collections.Lists.readOnlyListFromInitializer

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T): List<T> = MutableList(size, init)\n\n/**\n * Creates a new mutable list with the specified [size], where each element is calculated by calling the specified [init] function. The function [init] is called for each list element sequentially starting from the first one. It should return the value for a list element given its index.\n *\n * @sample samples.collections.Collections.Lists.mutableListFromInitializer\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {\n    val list = ArrayList<T>(size)\n    repeat(size) { index -> list.add(init(index)) }\n    return list\n}\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction] and returning a read-only list with the same elements. The list passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior. The returned list is serializable (JVM).\n *\n * @sample samples.collections.Builders.Lists.buildListSample\n *\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildListInternal(builderAction: MutableList<E>().->Unit): List<E>\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction] and returning a read-only list with the same elements. The list passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior. The returned list is serializable (JVM).\n *\n * [capacity] is used to hint the expected number of elements added in the [builderAction].\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample samples.collections.Builders.Lists.buildListSampleWithCapacity\n *\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return buildListInternal(capacity, builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().->Unit): List<E>\n\n/**\n * Returns an [IntRange] of the valid indices for this collection.\n *\n * @sample samples.collections.Collections.Collections.indicesOfCollection\n *\npublic val Collection<*>.indices: IntRange\n    get() = 0..size - 1\n\n/**\n * Returns the index of the last item in the list or -1 if the list is empty.\n *\n * @sample samples.collections.Collections.Lists.lastIndexOfList\n *\npublic val <T> List<T>.lastIndex: Int\n    get() = this.size - 1\n\n/**\n * Returns `true` if the collection is not empty.\n *\n * @sample samples.collections.Collections.Collections.collectionIsNotEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable collection is either null or empty.\n *\n * @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null || this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n *\n * @sample samples.collections.Collections.Collections.collectionOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.orElse(): Collection<T> = this ?: emptyList()\n\n/**\n * Returns this List if it's not `null` and the empty list otherwise.\n *\n * @sample samples.collections.Collections.Lists.listOrElse\n
```

```

* \n @kotlin.internal.InlineOnly\n public inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\n\n /**\n * Returns this collection if it's not empty\n * or the result of calling [defaultValue] function\n * if the collection is empty.\n * \n * @sample samples.collections.Collections.Collections.collectionIfEmpty\n */\n\n * \n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun <C, R> C.ifEmpty(defaultValue: () ->\n R): R where C : Collection<*>, C : R =\n if (isEmpty()) defaultValue() else this\n\n\n /**\n * Checks if all\n * elements in the specified collection are contained in this collection.\n * \n * \n * Allows to overcome type-safety\n * restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\n * \n * @sample\n * samples.collections.Collections.Collections.collectionContainsAll\n */\n\n * \n @Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in\n * some cases\n @kotlin.internal.InlineOnly\n public inline fun <@kotlin.internal.OnlyInputTypes T>\n Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\n\n /**\n * Returns a\n * new list with the elements of this list randomly shuffled\n * using the specified [random]\n * instance as the source of randomness.\n * \n * \n @SinceKotlin("1.3")\n public fun <T> Iterable<T>.shuffled(random:\n Random): List<T> = toMutableList().apply { shuffle(random) }\n\n\n internal fun <T>\n List<T>.optimizeReadOnlyList() = when (size) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else ->\n this\n }\n\n\n /**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * \n * \n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\n * \n * otherwise the result is undefined.\n * \n * \n * If the list contains multiple elements equal to the specified [element], there\n * is no guarantee which one will be found.\n * \n * \n * `null` value is considered to be less than any non-null value.\n * \n * \n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted\n * insertion point `(-insertion point - 1)`.\n * \n * \n * The insertion point is defined as the index\n * at which the element should be inserted,\n * \n * so that the list (or the specified subrange of list) still remains sorted.\n * \n * \n * @sample samples.collections.Collections.Lists.binarySearchOnComparable\n * @sample\n * samples.collections.Collections.Lists.binarySearchWithBoundaries\n */\n\n public fun <T : Comparable<T>>\n List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n rangeCheck(size, fromIndex,\n toIndex)\n var low = fromIndex\n var high = toIndex - 1\n while (low <= high) {\n val mid = (low +\n high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = compareValues(midVal,\n element)\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n }\n\n\n /**\n * Searches this list or its range\n * for the provided [element] using the binary search algorithm.\n * \n * \n * The list is expected\n * to be sorted into ascending order according to the specified [comparator],\n * \n * otherwise the result is undefined.\n * \n * \n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be\n * found.\n * \n * \n * `null` value is considered to be less than any non-null value.\n * \n * \n * @return the index of the element,\n * if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point -\n 1)`.\n * \n * \n * The insertion point is defined as the index at which the element should be inserted,\n * \n * so that the list (or the\n * specified subrange of list) still remains sorted according to the specified [comparator].\n * \n * \n * @sample\n * samples.collections.Collections.Lists.binarySearchWithComparator\n */\n\n public fun <T>\n List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n rangeCheck(size, fromIndex, toIndex)\n var low = fromIndex\n var high = toIndex - 1\n while (low <= high) {\n val mid = (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = comparator.compare(midVal, element)\n if (cmp < 0)\n low = mid + 1\n else if (cmp\n > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not\n found\n }\n\n\n /**\n * Searches this list or its range for an element having the key returned by the specified [selector]\n * function\n * equal to the provided [key] value using the binary search algorithm.\n * \n * \n * The list is expected to be sorted\n * into ascending order according to the Comparable natural ordering of keys of its elements.\n * \n * otherwise the result is\n * undefined.\n * \n * \n * If the list contains multiple elements with the specified [key], there is no guarantee which one\n * will be found.\n * \n * \n * `null` value is considered to be less than any non-null value.\n * \n * \n * @return the index of the\n * element with the specified [key],

```

if it is contained in the list within the specified range;\n \* otherwise, the inverted insertion point `(-insertion point - 1)`.\n \* The insertion point is defined as the index at which the element should be inserted,\n \* so that the list (or the specified subrange of list) still remains sorted.\n \* @sample

```

samples.collections.Collections.Lists.binarySearchByKey\n *^\npublic inline fun <T, K : Comparable<K>>
List<T>.binarySearchBy(\n key: K?,\n fromIndex: Int = 0,\n toIndex: Int = size,\n crossinline selector: (T) ->
K?)\n): Int =\n binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this
overload --- too rare\n//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>,
fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n// binarySearch(fromIndex, toIndex) {
comparator.compare(selector(it), key) }\n\n\n**\n * Searches this list or its range for an element for which the
given [comparison]
function returns zero using the binary search algorithm.\n * The list is expected to be sorted so that the signs of
the [comparison] function's return values ascend on the list elements,\n * i.e. negative values come before zero and
zeroes come before positive values.\n * Otherwise, the result is undefined.\n * If the list contains multiple
elements for which [comparison] returns zero, there is no guarantee which one will be found.\n * @param
comparison function that returns zero when called on the list element being searched.\n * On the elements coming
before the target element, the function must return negative values;\n * on the elements coming after the target
element, the function must return positive values.\n * @return the index of the found element, if it is contained
in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The
insertion point is defined as the index at which the element should be inserted,\n
* so that the list (or the specified subrange of list) still remains sorted.\n * @sample
samples.collections.Collections.Lists.binarySearchWithComparisonFunction\n *^\npublic fun <T>
List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\n rangeCheck(size,
fromIndex, toIndex)\n\n var low = fromIndex\n var high = toIndex - 1\n while (low <= high) {\n val mid
= (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = comparison(midVal)\n\n
if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return
mid // key found\n }\n return -(low + 1) // key not found\n}\n\n\n**\n * Checks that `from` and `to` are in\n * the
range of [0..size] and throws an appropriate exception, if they aren't.\n *^\nprivate fun rangeCheck(size: Int,
fromIndex: Int, toIndex: Int) {\n when {\n fromIndex > toIndex -> throw
IllegalArgumentException("fromIndex
($fromIndex) is greater than toIndex ($toIndex).")\n fromIndex < 0 -> throw
IndexOutOfBoundsException("fromIndex ($fromIndex) is less than zero.")\n toIndex > size -> throw
IndexOutOfBoundsException("toIndex ($toIndex) is greater than size ($size).")\n
}\n}\n\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal expect fun checkIndexOverflow(index: Int):
Int\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal expect fun checkCountOverflow(count: Int):
Int\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun throwIndexOverflow() { throw
ArithmeticException("Index overflow has happened.") }\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun
throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }\n\n",/*\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n@file:OptIn(kotlin.experimental.
ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\nprivate object
EmptyMap : Map<Any?, Nothing>, Serializable {\n private const val serialVersionUID: Long =
8246714829545688274\n\n override fun equals(other: Any?): Boolean = other is Map<*, *> &&
other.isEmpty()\n\n override fun hashCode(): Int = 0\n\n override fun toString(): String = "{}"\n\n override val
size: Int get() = 0\n\n override fun isEmpty(): Boolean = true\n\n\n override fun containsKey(key: Any?): Boolean =
false\n\n override fun containsValue(value: Nothing): Boolean = false\n\n override fun get(key: Any?): Nothing? =
null\n\n override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\n\n override val keys: Set<Any?>
get() = EmptySet\n\n override val values: Collection<Nothing> get() = EmptyList\n\n\n private fun readResolve():

```

Any

```
= EmptyMap\n\n/**\n * Returns an empty read-only map of specified type.\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\npublic fun <K, V> emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K, V>)\n\n/**\n * Returns a new read-only map with the specified contents, given as a list of pairs\n * where the first value is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\n    if (pairs.size > 0)\n        pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n    else emptyMap()\n\n/**\n * Returns an empty read-only map.\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns an empty new [MutableMap].\n *\n * The returned map preserves the entry iteration order.\n *\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf(): MutableMap<K, V> =\n    LinkedHashMap()\n\n/**\n * Returns a new [MutableMap] with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * @sample samples.collections.Maps.Instantiation.mutableMapFromPairs\n *\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n */\npublic fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> =\n    LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n * Returns an empty new [HashMap].\n *\n * @sample samples.collections.Maps.Instantiation.emptyHashMap\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V> =\n    HashMap<K, V>()\n\n/**\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * @sample samples.collections.Maps.Instantiation.hashMapFromPairs\n */\npublic fun <K, V> hashMapOf(vararg pairs: Pair<K, V>): HashMap<K, V> =\n    HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n * Returns an empty new [LinkedHashMap].\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> linkedMapOf(): LinkedHashMap<K, V> =\n    LinkedHashMap<K, V>()\n\n/**\n * Returns a new [LinkedHashMap] with the specified contents,\n * given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * @sample samples.collections.Maps.Instantiation.linkedMapFromPairs\n */\npublic fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> =\n    pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n/**\n * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only map with the same key-value pairs.\n *\n * The map passed as a receiver to the [builderAction] is valid only inside that function.\n *\n * Using it outside of the function produces an unspecified behavior.\n *\n * Entries of the map are iterated in the order they were added by the [builderAction].\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Builders.Maps.buildMapSample\n */\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return buildMapInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->Unit): Map<K,
```

V>\n\n/\*\*\n \* Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n \* and returning a read-only map with the same key-value pairs.\n \* The map passed as a receiver to the [builderAction] is valid only inside that function.\n \* Using it outside of the function produces an unspecified behavior.\n \* [capacity] is used to hint the expected number of pairs added in the [builderAction].\n \* Entries of the map are iterated in the order they were added by the [builderAction].\n \* The returned map is serializable (JVM).\n \* @throws IllegalArgumentException if the given [capacity] is negative.\n \* @sample samples.collections.Builders.Maps.buildMapSample\n

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*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return buildMapInternal(capacity, builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().->Unit): Map<K, V>\n\n/**\n * Calculate the initial capacity of a map.\n *\n * @PublishedApi\n * internal expect fun mapCapacity(expectedSize: Int): Int\n *\n * Returns `true` if this map is not empty.\n */\n\n@sample samples.collections.Maps.Usage.mapIsNotEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable map is either null or empty.\n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.isNullOrEmpty(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null || isEmpty()\n}\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n *\n * @sample samples.collections.Maps.Usage.mapOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>?.orElse(): Map<K, V> = this ?: emptyMap()\n\n/**\n * Returns this map if it's not empty\n * or the result of calling [defaultValue] function if the map is empty.\n *\n * @sample samples.collections.Maps.Usage.mapIfEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n    if (isEmpty())\n        defaultValue()\n    else this\n\n/**\n * Checks if the map contains the given key.\n *\n * This method allows to use the `x in map` syntax for checking whether an object is contained in the map.\n *\n * @sample samples.collections.Maps.Usage.containsKey\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n/**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =\n    @Suppress("UNCHECKED_CAST") (this as Map<K, V>).get(key)\n\n/**\n * Allows to use the index operator for storing values in a mutable map.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n    put(key, value)\n}\n\n/**\n * Returns `true` if the map contains the specified [key].\n *\n * Allows to overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\n    @Suppress("UNCHECKED_CAST") (this as Map<K, *>).containsKey(key)\n\n/**\n * Returns `true` if the map maps one or more keys to the specified [value].\n *\n * Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.\n *\n * @sample samples.collections.Maps.Usage.containsValue\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean = this.containsValue(value)\n\n/**\n * Removes the specified key and its corresponding value from this map.\n *\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n *\n * Allows to overcome type-safety

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restriction of `remove` that requires to pass a key of type `K`.
@kotlin.internal.InlineOnly
public inline fun
<@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K, V>.remove(key: K): V? =
@Suppress("UNCHECKED_CAST") (this as MutableMap<K, V>).remove(key)
Returns the key
component of the map entry.
This method allows to use destructuring declarations when working with maps,
for example:
for ((key, value) in map) { // do something with the key and the value }
@kotlin.internal.InlineOnly
public inline operator fun <K, V> Map.Entry<K, V>.component1(): K =
key
Returns the value component of the map entry.
This method allows to use destructuring
declarations when working with maps, for
example:
for ((key, value) in map) { // do something with the key and the value }
@kotlin.internal.InlineOnly
public inline operator fun <K, V> Map.Entry<K, V>.component2(): V =
value
Converts entry to [Pair] with key being first component and value being second.
@kotlin.internal.InlineOnly
public inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key,
value)
Returns the value for the given key, or the result of the [defaultValue] function if there was no
entry for the given key.
@sample samples.collections.Maps.Usage.getOrElse
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V
= get(key) ?: defaultValue
internal inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: ()
-> V): V {
    val value = get(key)
    if (value == null && !containsKey(key)) {
        return defaultValue()
    }
    else {
        @Suppress("UNCHECKED_CAST")
        return value as V
    }
}
Returns the value for the given [key] or throws an exception if there is no
such key in the map.
If the map was created by [withDefault], resorts to its `defaultValue` provider
function instead of throwing an exception.
@throws NoSuchElementException when the map doesn't
contain a value for the specified key and no implicit default value was provided for that map.
@SinceKotlin("1.1")
public fun <K, V> Map<K, V>.getValue(key: K): V =
getOrImplicitDefault(key)
Returns the value for the given key. If the key is not found in the map, calls
the [defaultValue] function, puts its result into the map under the given key and returns it.
Note that the
operation is not guaranteed to be atomic if the map is being modified concurrently.
@sample
samples.collections.Maps.Usage.getOrPut
public inline fun <K, V> MutableMap<K, V>.getOrPut(key: K,
defaultValue: () -> V):
V {
    val value = get(key)
    return if (value == null) {
        val answer = defaultValue()
        put(key,
answer)
        answer
    } else {
        value
    }
}
Returns an [Iterator] over the entries in the
[Map].
@sample samples.collections.Maps.Usage.forOverEntries
@kotlin.internal.InlineOnly
public
inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()
Returns a [MutableIterator] over the mutable entries in the [MutableMap].
@kotlin.jvm.JvmName("mutableIterator")
@kotlin.internal.InlineOnly
public inline operator fun <K, V>
MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()
Populates the given [destination] map with entries having the keys of this map and the values obtained
by
applying the [transform] function to each entry in this [Map].
public inline fun <K, V, R, M : MutableMap<in
K, in R>> Map<out
K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {
    return
entries.associateByTo(destination, { it.key }, transform)
}
Populates the given [destination] map with
entries having the keys obtained by applying the [transform] function to each entry in this [Map] and the values
of this map.
In case if any two entries are mapped to the equal keys, the value of the latter one will
overwrite the value associated with the former one.
public inline fun <K, V, R, M : MutableMap<in R, in
V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {
    return
entries.associateByTo(destination, transform, { it.value })
}
Puts all the given [pairs] into this
[MutableMap] with the first component in the pair being the key and the second the value.
public fun <K, V>
MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

```

```

}
}

PutAll: Puts all the elements of the given collection into this [MutableMap] with the first component in the pair being the key and the second the value.
public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

PutAll: Puts all the elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the second the value.
public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {
    for ((key, value) in pairs) {
        put(key, value)
    }
}

Map: Returns a new map with entries having the keys of this map and the values obtained by applying the [transform] function to each entry in this [Map].
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Transformations.mapValues
public inline fun <K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {
    return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()
}

Map: Returns a new Map with entries having the keys obtained by applying the [transform] function to each entry in this [Map] and the values of this map.
In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite the value associated with the former one.
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Transformations.mapKeys
public inline fun <K, V, R> Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {
    return mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()
}

Map: Returns a map containing all key-value pairs with keys matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Filtering.filterKeys
public inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {
    val result = LinkedHashMap<K, V>()
    for (entry in this) {
        if (predicate(entry.key)) {
            result.put(entry.key, entry.value)
        }
    }
    return result
}

Map: Returns a map containing all key-value pairs with values matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Filtering.filterValues
public inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {
    val result = LinkedHashMap<K, V>()
    for (entry in this) {
        if (predicate(entry.value)) {
            result.put(entry.key, entry.value)
        }
    }
    return result
}

Map: Appends all entries matching the given [predicate] into the mutable map given as [destination] parameter.
@return the destination map.
@sample
samples.collections.Maps.Filtering.filterTo
public inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {
    for (element in this) {
        if (predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

Map: Returns a new map containing all key-value pairs matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Filtering.filter
public inline fun <K, V> Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {
    return filterTo(LinkedHashMap<K, V>(), predicate)
}

Map: Appends all entries not matching the given [predicate] into the given [destination].
@return the destination map.
@sample
samples.collections.Maps.Filtering.filterNotTo
public inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {
    for (element in this) {
        if (!predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

Map: Returns a new map containing all key-value pairs not matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
@sample
samples.collections.Maps.Filtering.filterNot
public inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {
    return filterNotTo(LinkedHashMap<K, V>(), predicate)
}

Map: Returns a new map containing all key-value pairs from the given collection of pairs.
The returned map preserves the entry iteration order of the original collection.
If any of two pairs would have the same key the last one gets added to the map.
public

```

```

fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {
    if (this is Collection) {
        return when (size) {
            0 -> emptyMap()
            1 -> mapOf(if (this is List) this[0] else iterator().next())
            else ->
                toMap(LinkedHashMap<K, V>(mapCapacity(size)))
        }
    }
    return toMap(LinkedHashMap<K, V>().optimizeReadOnlyMap())
}

/**
 * Populates and returns the [destination] mutable map with key-value
 * pairs from the given collection of pairs.
 */
public fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =
    destination.apply { putAll(this@toMap) }

/**
 * Returns a new map
 * containing all key-value pairs from the given array of pairs.
 * The returned map preserves the entry iteration
 * order of the original array.
 * If any of two pairs would have the same key the last one gets added to the map.
 */
public fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {
    0 -> emptyMap()
    1 -> mapOf(this[0])
    else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
}

/**
 * Populates and
 * returns the [destination] mutable map with key-value pairs from the given array of pairs.
 */
public fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =
    destination.apply {
        putAll(this@toMap)
    }

/**
 * Returns a new map containing all key-value pairs from the given sequence of
 * pairs.
 * The returned map preserves the entry iteration order of the original sequence.
 * If any of two pairs
 * would have the same key the last one gets added to the map.
 */
public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>().optimizeReadOnlyMap())

/**
 * Populates and
 * returns the [destination] mutable map with key-value pairs from the given sequence of pairs.
 */
public fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =
    destination.apply {
        putAll(this@toMap)
    }

/**
 * Returns a new read-only map containing all key-value pairs from the original map.
 * The returned map
 * preserves the entry iteration order of the original map.
 */
@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {
    0 -> emptyMap()
    1 -> toSingletonMap()
    else ->
        toMutableMap()
}

/**
 * Returns a new mutable map containing all key-value pairs from the original map.
 * The returned map preserves the entry iteration order of the original map.
 */
@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)

/**
 * Populates
 * and returns the [destination] mutable map with key-value pairs from the given map.
 */
@SinceKotlin("1.1")
public fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =
    destination.apply { putAll(this@toMap) }

/**
 * Creates a new read-only map by replacing or
 * adding an entry to this map from a given key-value
 * [pair].
 * The returned map preserves the entry iteration order of the original map.
 * The [pair] is iterated in
 * the end if it has a unique key.
 */
public operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =
    if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }

/**
 * Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value
 * [pairs].
 * The returned map preserves the entry iteration order of the original map.
 * Those [pairs] with
 * unique keys are iterated in the end in the order of [pairs] collection.
 */
public operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =
    if (this.isEmpty()) pairs.toMap() else
        LinkedHashMap(this).apply { putAll(pairs) }

/**
 * Creates a new read-only map by replacing or adding entries
 * to this map from a given array of key-value [pairs].
 * The returned map preserves the entry iteration
 * order of the original map.
 * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.
 */
public operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =
    if
        (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }

/**
 * Creates a new read-only
 * map by replacing or adding entries to this map from a given sequence of key-value [pairs].
 * The returned map
 * preserves the entry iteration order of the original map.
 * Those [pairs] with unique keys are iterated in the end in
 * the order of [pairs] sequence.
 */
public operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =
    LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()

/**
 * Creates
 * a new read-only map by replacing or adding entries to this map from another [map].
 * The returned map
 * preserves the entry iteration order of the original map.
 * Those entries of another [map] that are missing

```



```

in this map are iterated in the end in the order of that [map].\n *\npublic operator fun <K, V> Map<out K,
V>.plus(map: Map<out K, V>): Map<K, V> =\n    LinkedHashMap(this).apply { putAll(map) }\n\n\n/**\n *
Appends or replaces the given [pair] in this mutable map.\n *\n@kotlin.internal.InlineOnly\npublic inline operator
fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {\n    put(pair.first, pair.second)\n}\n\n\n/**\n *
Appends or replaces all pairs from the given collection of [pairs] in this mutable map.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs:
Iterable<Pair<K, V>>) {\n    putAll(pairs)\n}\n\n\n/**\n * Appends or replaces all pairs from the given array of [pairs]
in this mutable map.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in
V>.plusAssign(pairs: Array<out Pair<K, V>>) {\n    putAll(pairs)\n}\n\n\n/**\n * Appends or replaces all pairs from
the given sequence
of [pairs] in this mutable map.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V>
MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\n    putAll(pairs)\n}\n\n\n/**\n * Appends or
replaces all entries from the given [map] in this mutable map.\n *\n@kotlin.internal.InlineOnly\npublic inline
operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {\n    putAll(map)\n}\n\n\n/**\n *
Returns a map containing all entries of the original map except the entry with the given [key].\n *\n * The returned
map preserves the entry iteration order of the original map.\n *\n@SinceKotlin("1.1")\npublic operator fun <K,
V> Map<out K, V>.minus(key: K): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(key)
}.optimizeReadOnlyMap()\n\n\n/**\n * Returns a map containing all entries of the original map except those entries\n
* the keys of which are contained in the given [keys] collection.\n *\n * The returned map preserves the entry
iteration order of the
original map.\n *\n@SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>):
Map<K, V> =\n    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n\n/**\n * Returns a
map containing all entries of the original map except those entries\n * the keys of which are contained in the given
[keys] array.\n *\n * The returned map preserves the entry iteration order of the original map.\n
*\n@SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V>
=\n    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n\n/**\n * Returns a map
containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys]
sequence.\n *\n * The returned map preserves the entry iteration order of the original map.\n
*\n@SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V>
=\n    this.toMutableMap().apply { minusAssign(keys)
}.optimizeReadOnlyMap()\n\n\n/**\n * Removes the entry with the given [key] from this mutable map.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K,
V>.minusAssign(key: K) {\n    remove(key)\n}\n\n\n/**\n * Removes all entries the keys of which are contained in
the given [keys] collection from this mutable map.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Iterable<K>) {\n    this.keys.removeAll(keys)\n}\n\n\n/**\n * Removes all entries the keys of
which are contained in the given [keys] array from this mutable map.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Array<out K>) {\n    this.keys.removeAll(keys)\n}\n\n\n/**\n * Removes all entries from the
keys of which are contained in the given [keys] sequence from this mutable map.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {\n
this.keys.removeAll(keys)\n}\n\n\n// do not expose for now @PublishedApi\ninternal fun <K, V> Map<K,
V>.optimizeReadOnlyMap() = when (size) {\n    0 -> emptyMap()\n    1 -> toSingletonMapOrSelf()\n    else ->
this\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n *\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n@file:OptIn(kotlin.experimenta
l.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\ninternal object

```

```

EmptySet : Set<Nothing>, Serializable {n private const val serialVersionUID: Long =
3406603774387020532\n override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n
override fun hashCode(): Int = 0\n
override fun toString(): String = \"[]\"\n override val size: Int get() = 0\n override fun isEmpty(): Boolean =
true\n override fun contains(element: Nothing): Boolean = false\n override fun containsAll(elements:
Collection<Nothing>): Boolean = elements.isEmpty()\n override fun iterator(): Iterator<Nothing> =
EmptyIterator\n\n private fun readResolve(): Any = EmptySet\n\n/**\n * Returns an empty read-only set.
The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n
*/\npublic fun <T> emptySet(): Set<T> = EmptySet\n\n/**\n * Returns a new read-only set with the given
elements.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable
(JVM).\n * @sample samples.collections.Collections.Sets.readOnlySet\n */\npublic fun <T> setOf(vararg elements:
T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\n\n/**\n * Returns an empty read-only set. The
returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n\n/**\n * Returns an empty
new [MutableSet].\n * The returned set preserves the element iteration order.\n * @sample
samples.collections.Collections.Sets.emptyMutableSet\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> =
LinkedHashSet()\n\n/**\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.mutableSet\n */\npublic
fun <T> mutableSetOf(vararg elements: T): MutableSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new [HashSet].
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> =
HashSet()\n\n/**\n * Returns a new [HashSet]
with the given elements. */\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> =
elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new [LinkedHashSet].\n
*/\n@sample samples.collections.Collections.Sets.emptyLinkedHashSet\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T>
= LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.linkedHashSet\n
*/\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Returns a new read-only set either
with single given element, if it is not null, or empty set if the element is null.\n * The returned set is serializable
(JVM).\n * @sample samples.collections.Collections.Sets.setOfNotNull\n */\n@SinceKotlin(\"1.4\")\npublic
fun <T : Any> setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()\n\n/**\n * Returns a new read-only set only with those given elements, that are not null.\n * Elements of the set are iterated in
the order they were specified.\n * The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.setOfNotNull\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Any>
setOfNotNull(vararg elements: T?): Set<T> {n return elements.filterNotNullTo(LinkedHashSet())\n}\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-
only set with the same elements.\n * The set passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n * Elements of the set are
iterated in the order they were added by the [builderAction].\n * The returned set is serializable (JVM).\n
*/\n@sample samples.collections.Builders.Sets.buildSetSample\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {n contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return
buildSetInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal
expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit): Set<E>\n\n/**\n * Builds a

```

```

new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set
with the same elements.\n *\n * The set passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * [capacity] is used to hint the
expected number of elements added in the [builderAction].\n *\n * Elements of
the set are iterated in the order they were added by the [builderAction].\n *\n * The returned set is serializable
(JVM).\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample
samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>().->Unit): Set<E> {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildSetInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline
fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().->Unit): Set<E>\n\n/** Returns this Set
if it's not `null` and the empty set otherwise. *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet()
= when (size) {\n 0 -> emptySet()\n 1 -> setOf(iterator().next())\n else -> this\n}\n\n"/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("PLATFOR
M_CLASS_MAPPED_TO_KOTLIN")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte]
number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n\n@SinceKotlin("1.1")\npublic fun String.toByteArrayOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses
the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n *\n\n@SinceKotlin("1.1")\npublic
fun String.toByteArrayOrNull(radix: Int): Byte? {\n val int = this.toIntOrNull(radix) ?: return null\n if (int <
Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n return int.toByteArray()\n}\n\n/**\n * Parses the string as
a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n\n@SinceKotlin("1.1")\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\n\n/**\n * Parses
the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n *\n\n@SinceKotlin("1.1")\npublic fun String.toShortOrNull(radix: Int): Short? {\n val int =
this.toIntOrNull(radix) ?: return null\n if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\n
return int.toShort()\n}\n\n/**\n * Parses the string as an [Int] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n\n@SinceKotlin("1.1")\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\n\n/**\n * Parses the
string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n\n@SinceKotlin("1.1")\npublic fun String.toIntOrNull(radix: Int): Int? {\n checkRadix(radix)\n\n val length
= this.length\n if (length == 0) return null\n\n val start: Int\n val isNegative: Boolean\n val limit: Int\n val
firstChar = this[0]\n if (firstChar < '0') { // Possible leading sign\n if (length == 1) return null // non-digit
(possible sign) only, no digits after\n\n start = 1\n\n if (firstChar == '-') {\n isNegative = true\n
limit = Int.MIN_VALUE\n } else if (firstChar
== '+') {\n isNegative = false\n limit = -Int.MAX_VALUE\n } else\n return null\n } else
{\n start = 0\n isNegative = false\n limit = -Int.MAX_VALUE\n }\n\n val limitForMaxRadix = (-
Int.MAX_VALUE) / 36\n var limitBeforeMul = limitForMaxRadix\n var result = 0\n for (i in start until
length) {\n val digit = digitOf(this[i], radix)\n if (digit < 0) return null\n if (result < limitBeforeMul)
{\n if (limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / radix\n\n if
(result < limitBeforeMul) {\n return null\n }\n } else {\n return null\n
}

```

```

    }
    }
    result *= radix
    if (result < limit + digit) return null
    result -= digit
}

return if (isNegative) result else -result

 * Parses the string as a [Long] number and returns
the result * or `null` if the string is not a valid representation of a number.
 * Since Kotlin("1.1")
public
fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)

 * Parses the string as a [Long] number and
returns the result * or `null` if the string is not a valid representation of a number.
 * @throws
IllegalArgumentExcepion when [radix] is not a valid radix for string to number conversion.

 * Since Kotlin("1.1")
public fun String.toLongOrNull(radix: Int): Long? {
    checkRadix(radix)
    val
length = this.length
    if (length == 0) return null
    val start: Int
    val isNegative: Boolean
    val limit:
Long
    val firstChar = this[0]
    if (firstChar < '0') { // Possible leading sign
        if (length == 1) return null
        // non-digit (possible sign) only, no digits after
        start = 1
        if (firstChar == '-') {
            isNegative =
true
            limit = Long.MIN_VALUE
        } else if (firstChar
== '+') {
            isNegative = false
            limit = -Long.MAX_VALUE
        } else
return null
    }
else {
    start = 0
    isNegative = false
    limit = -Long.MAX_VALUE
}

    val
limitForMaxRadix = (-Long.MAX_VALUE) / 36
    var limitBeforeMul = limitForMaxRadix
    var result =
0L
    for (i in start until length) {
        val digit = digitOf(this[i], radix)
        if (digit < 0) return null
        if
(result < limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit
/ radix
            }
            if (result < limitBeforeMul) {
                return null
            }
        } else {
            return null
        }
    }
    result *= radix
    if (result < limit + digit) return null
    result -=
digit
}

return if (isNegative) result else -result

internal fun numberFormatError(input: String):
Nothing = throw NumberFormatException("Invalid number format: '$input'")

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Apache 2.0 license that can be found in the license/LICENSE.txt file.

package kotlin.time
import
kotlin.contracts.*
import kotlin.jvm.JvmInline
import kotlin.math.*

 * Represents the amount of time one
instant of time is away from another instant.
 * A negative duration is possible in a situation when the second
instant is earlier than the first one.
 * The type can store duration values up to 146 years with
nanosecond precision,
 * and up to 146 million years with millisecond precision.
 * If a duration-returning
operation provided in `kotlin.time` produces a duration value that doesn't fit into the above range,
 * the returned
`Duration` is infinite.
 * An infinite duration value [Duration.INFINITE] can be used to represent
infinite timeouts.
 * To construct a duration use either the extension function [toDuration],
 * or the extension
properties [hours], [minutes], [seconds], and so on,
 * available on [Int], [Long], and [Double] numeric types.

 * To get the value of this duration expressed in a particular [duration units][DurationUnit]
 * use the functions
[toInt], [toLong], and [toDouble]
 * or the properties [inWholeHours], [inWholeMinutes], [inWholeSeconds],
[inWholeNanoseconds], and so on.

 * Since Kotlin("1.6")
@WasExperimental(ExperimentalTime::class)
@JvmInline
public value class
Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {
    private val value: Long
get() = rawValue shr 1
    private inline val unitDiscriminator: Int get() = rawValue.toInt() and 1
    private fun
isInNanos() = unitDiscriminator == 0
    private fun isInMillis() = unitDiscriminator == 1
    private val
storageUnit get() = if (isInNanos()) DurationUnit.NANOSECONDS
else DurationUnit.MILLISECONDS

    init {
        if (durationAssertionsEnabled) {
            if (isInNanos())
{
                if (value !in -MAX_NANOS..MAX_NANOS) throw AssertionError("$value ns is out of nanoseconds
range")
            }
            else {
                if (value !in -MAX_MILLIS..MAX_MILLIS) throw AssertionError("$value
ms is out of milliseconds range")
            }
            if (value in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) throw AssertionError("$value ms is denormalized")
        }
    }

    companion object {
        /** The duration equal to exactly 0 seconds.
        * Since Kotlin("1.6")
        public
val ZERO: Duration = Duration(0L)

        /** The duration whose value is positive infinity. It is useful for
representing timeouts that should never expire.
        * Since Kotlin("1.6")
        public val INFINITE: Duration =
durationOfMillis(MAX_MILLIS)

        internal val NEG_INFINITE: Duration = durationOfMillis(-
MAX_MILLIS)

        /** Converts the given time duration

```

```

    [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */
    @ExperimentalTime
    public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =
    convertDurationUnit(value, sourceUnit, targetUnit)
    // Duration construction extension properties in
    Duration companion scope
    /** Returns a [Duration] equal to this [Int] number of nanoseconds. */
    @kotlin.internal.InlineOnly
    public inline val Int.nanoseconds get() =
    toDuration(DurationUnit.NANOSECONDS)
    /** Returns a [Duration] equal to this [Long] number of
    nanoseconds. */
    @kotlin.internal.InlineOnly
    public inline val Long.nanoseconds get() =
    toDuration(DurationUnit.NANOSECONDS)
    /**
    * Returns a [Duration] equal to this [Double]
    number of nanoseconds.
    *
    * Depending on its magnitude, the value is rounded to an integer number of
    nanoseconds or milliseconds.
    *
    * @throws IllegalArgumentException if this [Double] value is `NaN`.
    */
    @kotlin.internal.InlineOnly
    public inline val Double.nanoseconds get() =
    toDuration(DurationUnit.NANOSECONDS)
    /** Returns a [Duration] equal to this [Int] number of
    microseconds. */
    @kotlin.internal.InlineOnly
    public inline val Int.microseconds get() =
    toDuration(DurationUnit.MICROSECONDS)
    /** Returns a [Duration] equal to this [Long] number of
    microseconds. */
    @kotlin.internal.InlineOnly
    public inline val Long.microseconds get() =
    toDuration(DurationUnit.MICROSECONDS)
    /**
    * Returns a [Duration] equal to this [Double]
    number of microseconds.
    *
    * Depending on its magnitude, the value is rounded to an integer number
    of nanoseconds or milliseconds.
    *
    * @throws IllegalArgumentException if this [Double] value is
    `NaN`.
    */
    @kotlin.internal.InlineOnly
    public inline val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)
    /**
    Returns a [Duration] equal to this [Int] number of milliseconds.
    */
    @kotlin.internal.InlineOnly
    public inline val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)
    /** Returns a [Duration]
    equal to this [Long] number of milliseconds.
    */
    @kotlin.internal.InlineOnly
    public inline val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)
    /**
    * Returns a [Duration]
    equal to this [Double] number of milliseconds.
    *
    * Depending on its magnitude, the value is rounded
    to an integer number of nanoseconds or milliseconds.
    *
    * @throws IllegalArgumentException if this
    [Double] value is `NaN`.
    */
    @kotlin.internal.InlineOnly
    public inline val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)
    /** Returns a [Duration] equal to this [Int] number of seconds. */
    @kotlin.internal.InlineOnly
    public inline val Int.seconds get() = toDuration(DurationUnit.SECONDS)
    /** Returns a [Duration] equal to
    this [Long] number of seconds.
    */
    @kotlin.internal.InlineOnly
    public inline val Long.seconds get() =
    toDuration(DurationUnit.SECONDS)
    /**
    * Returns a [Duration] equal to this [Double] number of
    seconds.
    *
    * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or
    milliseconds.
    *
    * @throws IllegalArgumentException if this [Double] value is `NaN`.
    */
    @kotlin.internal.InlineOnly
    public inline val Double.seconds get() =
    toDuration(DurationUnit.SECONDS)
    /** Returns a [Duration] equal to this [Int] number of minutes.
    */
    @kotlin.internal.InlineOnly
    public inline val Int.minutes get() = toDuration(DurationUnit.MINUTES)
    /** Returns a [Duration] equal to this [Long] number of minutes.
    */
    @kotlin.internal.InlineOnly
    public inline val Long.minutes get() = toDuration(DurationUnit.MINUTES)
    /**
    * Returns a
    [Duration] equal to this [Double] number of minutes.
    *
    * Depending on its magnitude, the value is
    rounded to an integer number of nanoseconds or milliseconds.
    *
    * @throws IllegalArgumentException
    if this [Double] value is `NaN`.
    */
    @kotlin.internal.InlineOnly
    public inline val Double.minutes get() = toDuration(DurationUnit.MINUTES)
    /** Returns a [Duration] equal to this [Int] number of hours.
    */
    @kotlin.internal.InlineOnly
    public inline val Int.hours get() = toDuration(DurationUnit.HOURS)
    /** Returns a [Duration] equal to this [Long] number of hours.
    */
    @kotlin.internal.InlineOnly
    public inline val Long.hours

```

```

get() = toDuration(DurationUnit.HOURS)\n\n    /**\n    * Returns a [Duration] equal to this [Double] number
of hours.\n    *\n    * Depending on its magnitude, the value is rounded to an integer number of nanoseconds
or milliseconds.\n    *\n    * @throws IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n    /** Returns a [Duration] equal to this [Int] number of days. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.days get() = toDuration(DurationUnit.DAYS)\n\n    /** Returns a [Duration] equal to this [Long]
number of days. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.days get() =
toDuration(DurationUnit.DAYS)\n\n    /**\n    * Returns a [Duration] equal to this [Double] number of days.\n    *\n    * Depending on its magnitude, the value is
rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public
inline val Double.days get() = toDuration(DurationUnit.DAYS)\n\n    // deprecated static factory functions\n\n    /** Returns a [Duration] representing the specified [value] number of nanoseconds. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use 'Int.nanoseconds' extension property
from Duration.Companion instead.", ReplaceWith("value.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun nanoseconds(value: Int): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n    /**
Returns a [Duration] representing the specified [value] number of nanoseconds. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use
'Long.nanoseconds' extension property from Duration.Companion instead.", ReplaceWith("value.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun nanoseconds(value: Long): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n    /**\n    * Returns a [Duration] representing the specified [value] number of nanoseconds.\n    *\n    * @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.\n    */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use 'Double.nanoseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun nanoseconds(value: Double): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n    /** Returns a [Duration] representing the specified
[value] number of microseconds. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use 'Int.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun microseconds(value: Int): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n    /** Returns a [Duration] representing the specified
[value] number of microseconds. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use 'Long.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun microseconds(value: Long): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n    /**\n    * Returns a [Duration] representing
the specified [value] number of microseconds.\n    *\n    * @throws IllegalArgumentException if the
provided `Double` [value] is `NaN`.\n    */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use 'Double.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun microseconds(value: Double): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n    /** Returns a [Duration] representing the specified
[value] number of milliseconds. */\n    @SinceKotlin("1.5")\n    @ExperimentalTime\n    @Deprecated("Use 'Int.milliseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n    @DeprecatedSinceKotlin(warningSince = "1.6")\n    public fun milliseconds(value:

```

```

Int): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] representing
the specified [value] number of milliseconds. *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n    @Deprecated("\Use 'Long.milliseconds' extension property from Duration.Companion instead.\",
ReplaceWith("\value.milliseconds", "\kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "\1.6")\n    public fun milliseconds(value: Long): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n    /**\n    * Returns a [Duration] representing the
specified [value] number of milliseconds.\n    *\n    * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n    *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n
@Deprecated("\Use 'Double.milliseconds' extension property from Duration.Companion instead.\",
ReplaceWith("\value.milliseconds", "\kotlin.time.Duration.Companion.milliseconds"))\n
    @DeprecatedSinceKotlin(warningSince = "\1.6")\n    public fun milliseconds(value: Double): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] representing the specified
[value] number of seconds. *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n    @Deprecated("\Use
'Int.seconds' extension property from Duration.Companion instead.\", ReplaceWith("\value.seconds",
"\kotlin.time.Duration.Companion.seconds"))\n    @DeprecatedSinceKotlin(warningSince = "\1.6")\n    public
fun seconds(value: Int): Duration = value.toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration]
representing the specified [value] number of seconds. *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n
    @Deprecated("\Use 'Long.seconds' extension property from Duration.Companion instead.\",
ReplaceWith("\value.seconds", "\kotlin.time.Duration.Companion.seconds"))\n
    @DeprecatedSinceKotlin(warningSince = "\1.6")\n    public fun seconds(value: Long): Duration =
value.toDuration(DurationUnit.SECONDS)\n\n    /**\n    * Returns a [Duration] representing the specified
[value] number of seconds.\n    *\n    * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n    *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n    @Deprecated("\Use
'Double.seconds' extension property from Duration.Companion instead.\", ReplaceWith("\value.seconds",
"\kotlin.time.Duration.Companion.seconds"))\n    @DeprecatedSinceKotlin(warningSince = "\1.6")\n    public
fun seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n    /** Returns a
[Duration] representing the specified [value] number of minutes. *\n    @SinceKotlin("\1.5")\n
@ExperimentalTime\n    @Deprecated("\Use 'Int.minutes' extension property from Duration.Companion
instead.\", ReplaceWith("\value.minutes",
"\kotlin.time.Duration.Companion.minutes"))\n    @DeprecatedSinceKotlin(warningSince = "\1.6")\n
public fun minutes(value: Int): Duration = value.toDuration(DurationUnit.MINUTES)\n\n    /** Returns a
[Duration] representing the specified [value] number of minutes. *\n    @SinceKotlin("\1.5")\n
@ExperimentalTime\n    @Deprecated("\Use 'Long.minutes' extension property from Duration.Companion
instead.\", ReplaceWith("\value.minutes", "\kotlin.time.Duration.Companion.minutes"))\n
@DeprecatedSinceKotlin(warningSince = "\1.6")\n    public fun minutes(value: Long): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n    /**\n    * Returns a [Duration] representing the specified
[value] number of minutes.\n    *\n    * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n    *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n    @Deprecated("\Use
'Double.minutes'
extension property from Duration.Companion instead.\", ReplaceWith("\value.minutes",
"\kotlin.time.Duration.Companion.minutes"))\n    @DeprecatedSinceKotlin(warningSince = "\1.6")\n    public
fun minutes(value: Double): Duration = value.toDuration(DurationUnit.MINUTES)\n\n    /** Returns a
[Duration] representing the specified [value] number of hours. *\n    @SinceKotlin("\1.5")\n
@ExperimentalTime\n    @Deprecated("\Use 'Int.hours' extension property from Duration.Companion
instead.\",
ReplaceWith("\value.hours", "\kotlin.time.Duration.Companion.hours"))\n
@DeprecatedSinceKotlin(warningSince = "\1.6")\n    public fun hours(value: Int): Duration =
value.toDuration(DurationUnit.HOURS)\n\n    /** Returns a [Duration] representing the specified [value] number
of hours. *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n    @Deprecated("\Use 'Long.hours'

```

```

extension property from Duration.Companion instead.", ReplaceWith("\value.hours",
    "\kotlin.time.Duration.Companion.hours"))\n    @DeprecatedSinceKotlin(warningSince = "\1.6")\n    public
fun hours(value: Long): Duration = value.toDuration(DurationUnit.HOURS)\n\n    /**\n    * Returns a
[Duration] representing the specified [value] number of hours.\n    *\n    * @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.\n    */\n    @SinceKotlin("\1.5")\n
@ExperimentalTime\n    @Deprecated("\Use 'Double.hours' extension property from Duration.Companion
instead.", ReplaceWith("\value.hours", "\kotlin.time.Duration.Companion.hours"))\n
@DeprecatedSinceKotlin(warningSince = "\1.6")\n    public fun hours(value: Double): Duration =
value.toDuration(DurationUnit.HOURS)\n\n    /** Returns a [Duration] representing the specified [value]
number of days. *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n    @Deprecated("\Use 'Int.days'
extension property
from Duration.Companion instead.", ReplaceWith("\value.days", "\kotlin.time.Duration.Companion.days"))\n
@DeprecatedSinceKotlin(warningSince = "\1.6")\n    public fun days(value: Int): Duration =
value.toDuration(DurationUnit.DAYS)\n\n    /** Returns a [Duration] representing the specified [value] number
of days. *\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n    @Deprecated("\Use 'Long.days'
extension property from Duration.Companion instead.", ReplaceWith("\value.days",
"\kotlin.time.Duration.Companion.days"))\n    @DeprecatedSinceKotlin(warningSince = "\1.6")\n    public
fun days(value: Long): Duration = value.toDuration(DurationUnit.DAYS)\n\n    /**\n    * Returns a [Duration]
representing the specified [value] number of days.\n    *\n    * @throws IllegalArgumentException if the
provided `Double` [value] is `NaN`.\n    */\n    @SinceKotlin("\1.5")\n    @ExperimentalTime\n
@Deprecated("\Use
'Double.days' extension property from Duration.Companion instead.", ReplaceWith("\value.days",
"\kotlin.time.Duration.Companion.days"))\n    @DeprecatedSinceKotlin(warningSince = "\1.6")\n    public
fun days(value: Double): Duration = value.toDuration(DurationUnit.DAYS)\n\n    /**\n    * Parses a string that
represents a duration and returns the parsed [Duration] value.\n    *\n    * The following formats are
accepted:\n    *\n    * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and
[parseIsoString].\n    * - The format of string returned by the default [Duration.toString] and `toString` in a
specific unit,\n    * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n    *\n    * @throws IllegalArgumentException if
the string doesn't represent a duration in any of the supported formats.\n    * @sample
samples.time.Durations.parse\n    */\n    public fun parse(value: String): Duration = try {\n
    parseDuration(value, strictIso = false)\n    } catch (e: IllegalArgumentException) {\n    throw
IllegalArgumentException("\Invalid duration string format: '$value'.", e)\n    }\n\n    /**\n    * Parses a
string that represents a duration in ISO-8601 format and returns the parsed [Duration] value.\n    *\n    *
@throws IllegalArgumentException if the string doesn't represent a duration in ISO-8601 format.\n    * @sample
samples.time.Durations.parseIsoString\n    */\n    public fun parseIsoString(value: String): Duration = try {\n
    parseDuration(value, strictIso = true)\n    } catch (e: IllegalArgumentException) {\n    throw
IllegalArgumentException("\Invalid ISO duration string format: '$value'.", e)\n    }\n\n    /**\n    * Parses a
string that represents a duration and returns the parsed [Duration] value,\n    * or `null` if the string doesn't
represent a duration in any of the supported formats.\n    *\n    * The following formats are accepted:\n    *\n    * - ISO-8601 Duration format, e.g.
`P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].\n    * - The format of string returned by the default
[Duration.toString] and `toString` in a specific unit,\n    * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n    *
@sample samples.time.Durations.parse\n    */\n    public fun parseOrNull(value: String): Duration? = try {\n
    parseDuration(value, strictIso = false)\n    } catch (e: IllegalArgumentException) {\n    null\n    }\n\n
/**\n    * Parses a string that represents a duration in ISO-8601 format and returns the parsed [Duration] value,\n
* or `null` if the string doesn't represent a duration in ISO-8601 format.\n    * @sample
samples.time.Durations.parseIsoString\n    */\n    public fun parseIsoStringOrNull(value: String): Duration? =
try {\n    parseDuration(value,

```



```

strictIso = true)\n    } catch (e: IllegalArgumentException) {\n        null\n    }\n\n    // arithmetic
operators\n\n    /** Returns the negative of this value. */\n    public operator fun unaryMinus(): Duration =
durationOf(-value, unitDiscriminator)\n\n    /**\n     * Returns a duration whose value is the sum of this and [other]
duration values.\n     *\n     * @throws IllegalArgumentException if the operation results in an undefined value for
the given arguments,\n     * e.g. when adding infinite durations of different sign.\n     */\n    public operator fun
plus(other: Duration): Duration {\n        when {\n            this.isInfinite() -> {\n                if (other.isFinite() ||
(this.rawValue xor other.rawValue >= 0))\n                    return this\n                else\n                    throw
IllegalArgumentException("Summing infinite durations of different signs yields an undefined result.")\n            }\n            other.isInfinite() -> return
other\n        }\n        return when {\n            this.unitDiscriminator == other.unitDiscriminator -> {\n                val
result = this.value + other.value // never overflows long, but can overflow long63\n                when {\n                    isInNanos() ->\n                        durationOfNanosNormalized(result)\n                    else ->\n                        durationOfMillisNormalized(result)\n                }\n                this.isInMillis() ->\n                    addValuesMixedRanges(this.value, other.value)\n                else ->\n                    addValuesMixedRanges(other.value,
this.value)\n            }\n        }\n        private fun addValuesMixedRanges(thisMillis: Long, otherNanos: Long): Duration
{\n            val otherMillis = nanosToMillis(otherNanos)\n            val resultMillis = thisMillis + otherMillis\n            return if
(resultMillis in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n                val otherNanoRemainder =
otherNanos - millisToNanos(otherMillis)\n                durationOfNanos(millisToNanos(resultMillis) + otherNanoRemainder)\n            } else {\n
durationOfMillis(resultMillis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n            }\n        }\n\n        /**\n         * Returns a
duration whose value is the difference between this and [other] duration values.\n         *\n         * @throws
IllegalArgumentException if the operation results in an undefined value for the given arguments,\n         * e.g. when
subtracting infinite durations of the same sign.\n         */\n        public operator fun minus(other: Duration): Duration =
this + (-other)\n\n        /**\n         * Returns a duration whose value is this duration value multiplied by the given [scale]
number.\n         *\n         * @throws IllegalArgumentException if the operation results in an undefined value for the given
arguments,\n         * e.g. when multiplying an infinite duration by zero.\n         */\n        public operator fun times(scale: Int):
Duration {\n            if (isInfinite()) {\n                return when {\n                    scale == 0 -> throw
IllegalArgumentException("Multiplying infinite duration by zero yields an undefined
result.")\n                    scale > 0 -> this\n                    else -> -this\n                }\n            }\n            if (scale == 0) return
ZERO\n            val value = value\n            val result = value * scale\n            return if (isInNanos()) {\n                if (value in
(MAX_NANOS / Int.MIN_VALUE)..(-MAX_NANOS / Int.MIN_VALUE)) {\n                    // can't overflow nanos
range for any scale\n                    durationOfNanos(result)\n                } else {\n                    if (result / scale == value) {\n
                        durationOfNanosNormalized(result)\n                    } else {\n                        val millis = nanosToMillis(value)\n
                        val remNanos = value - millisToNanos(millis)\n                        val resultMillis = millis * scale\n
                        val totalMillis = resultMillis + nanosToMillis(remNanos * scale)\n                        if (resultMillis
/ scale == millis && totalMillis xor resultMillis >= 0) {\n                            durationOfMillis(totalMillis.coerceIn(-
MAX_MILLIS..MAX_MILLIS))\n                        } else {\n                            if (value.sign * scale.sign > 0) INFINITE
else NEG_INFINITE\n                        }\n                    }\n                } else {\n                    if (result / scale == value) {\n
                        durationOfMillis(result.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n                    } else {\n                        if (value.sign
* scale.sign > 0) INFINITE else NEG_INFINITE\n                    }\n                }\n            }\n        }\n\n        /**\n         * Returns a duration whose
value is this duration value multiplied by the given [scale] number.\n         *\n         * The operation may involve rounding
when the result cannot be represented exactly with a [Double] number.\n         *\n         * @throws
IllegalArgumentException if the operation results in an undefined value for the given arguments,\n         * e.g. when
multiplying an infinite duration by zero.\n         */\n        public operator fun times(scale: Double): Duration {\n            val intScale = scale.roundToInt()\n            if
(intScale.toDouble() == scale) {\n                return times(intScale)\n            }\n            val unit = storageUnit\n            val
result = toDouble(unit) * scale\n            return result.toDuration(unit)\n        }\n\n        /**\n         * Returns a duration whose
value is this duration value divided by the given [scale] number.\n         *\n         * @throws IllegalArgumentException if

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the operation results in an undefined value for the given arguments,\n
    * e.g. when dividing zero duration by zero.\n
    */\n
public operator fun div(scale: Int): Duration {\n
    if (scale == 0) {\n
        return when {\n
            isPositive() -> INFINITE\n
            isNegative() -> NEG_INFINITE\n
            else -> throw\n
            IllegalArgumentException("Dividing zero duration by zero yields an undefined result.")\n
        }\n
    }\n
    if (isInNanos()) {\n
        return durationOfNanos(value / scale)\n
    } else {\n
        if (isInfinite())\n
            return this * scale.sign\n
        val result = value / scale\n
        if (result in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n
            val rem = millisToNanos(value - (result * scale)) / scale\n
            return durationOfNanos(millisToNanos(result) + rem)\n
        }\n
        return durationOfMillis(result)\n
    }\n
}\n
}

/**\n
 * Returns a duration whose value is this duration value divided by the given [scale] number.\n
 * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n
 * e.g. when dividing an infinite duration by infinity or zero duration by zero.\n
 */\n
public operator fun div(scale: Double): Duration {\n
    val intScale = scale.roundToInt()\n
    if (intScale.toDouble() == scale && intScale != 0) {\n
        return div(intScale)\n
    }\n
    val unit = storageUnit\n
    val result = toDouble(unit) / scale\n
    return result.toDuration(unit)\n
}\n
}

/** Returns a number that is the ratio of this and [other] duration values. */\n
public operator fun div(other: Duration): Double {\n
    val coarserUnit = maxOf(this.storageUnit, other.storageUnit)\n
    return this.toDouble(coarserUnit) / other.toDouble(coarserUnit)\n
}\n
}

/** Returns true, if the duration value is less than zero. */\n
public fun isNegative(): Boolean = rawValue < 0\n
/** Returns true, if the duration value is greater than zero. */\n
public fun isPositive(): Boolean = rawValue > 0\n
/** Returns true, if the duration value is infinite. */\n
public fun isInfinite(): Boolean = rawValue == INFINITE.rawValue || rawValue == NEG_INFINITE.rawValue\n
/** Returns true, if the duration value is finite. */\n
public fun isFinite(): Boolean = !isInfinite()\n
/** Returns the absolute value of this value.

The returned value is always non-negative. */\n
public val absoluteValue: Duration get() = if (isNegative()) -this else this\n
}

override fun compareTo(other: Duration): Int {\n
    val compareBits = this.rawValue xor other.rawValue\n
    if (compareBits < 0 || compareBits.toInt() and 1 == 0) // different signs or same sign/same range\n
        return this.rawValue.compareTo(other.rawValue) // same sign/different ranges\n
    val r = this.unitDiscriminator - other.unitDiscriminator // compare ranges\n
    return if (isNegative()) -r else r\n
}\n
}

// splitting to components\n
/**\n
 * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n
 * The result of [action] is returned as the result of this function.\n
 * `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n
 * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n
 * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;\n
 * - `days` represents the whole number of days in this duration.\n
 * Infinite durations are represented as either [Long.MAX_VALUE] days, or [Long.MIN_VALUE] days (depending on the sign of infinity),\n
 * and zeroes in the lower components.\n
 */\n
public inline fun <T> toComponents(action: (days: Long, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {\n
    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n
    return action(inWholeDays, hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n
}\n
}

/**\n
 * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n
 * The result of [action] is returned as the result of this function.\n
 * `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n
 * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n
 * - `hours` represents the whole number of hours in this duration.\n
 * Infinite durations are represented as either [Long.MAX_VALUE] hours, or [Long.MIN_VALUE] hours (depending on the sign of infinity),\n
 * and zeroes in the lower components.\n

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*/\n public inline fun <T> toComponents(action: (hours: Long, minutes: Int, seconds: Int, nanoseconds: Int) -> T):
T {\n contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n
return action(inWholeHours, minutesComponent, secondsComponent, nanosecondsComponent)\n }\n\n /**\n
* Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these
components.\n * The result of [action] is returned as the result of this function.\n * - `nanoseconds`
represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
* - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n
* - `minutes` represents the whole number of minutes in this duration.\n * Infinite durations are represented as
either [Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),\n
* and zeroes in the lower components.\n */\n public inline fun <T> toComponents(action: (minutes: Long,
seconds: Int, nanoseconds: Int) -> T): T {\n contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE)
}\n return action(inWholeMinutes, secondsComponent, nanosecondsComponent)\n }\n\n /**\n
* Splits
this duration into seconds, and nanoseconds and executes the given [action] with these components.\n * The result
of [action] is returned as the result of this function.\n * - `nanoseconds` represents the whole number of
nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n * - `seconds` represents the
whole number of seconds in this duration.\n * Infinite durations are represented as either
[Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),\n
* and
zero nanoseconds.\n */\n public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T):
T {\n contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n return
action(inWholeSeconds, nanosecondsComponent)\n }\n\n @PublishedApi\n internal
val hoursComponent: Int\n get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()\n\n @PublishedApi\n
internal val minutesComponent: Int\n get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()\n\n
@PublishedApi\n internal val secondsComponent: Int\n get() = if (isInfinite()) 0 else (inWholeSeconds %
60).toInt()\n\n @PublishedApi\n internal val nanosecondsComponent: Int\n get() = when {\n
isInfinite() -> 0\n isInMillis() -> millisToNanos(value % 1_000).toInt()\n else -> (value %
1_000_000_000).toInt()\n }\n\n // conversion to units\n\n /**\n
* Returns the value of this duration
expressed as a [Double] number of the specified [unit].\n * The operation may involve rounding when the
result cannot be represented exactly with a [Double] number.\n * An infinite duration value is converted
either to [Double.POSITIVE_INFINITY] or [Double.NEGATIVE_INFINITY] depending
on its sign.\n */\n public fun toDouble(unit: DurationUnit): Double {\n return when (rawValue) {\n
INFINITE.rawValue -> Double.POSITIVE_INFINITY\n NEG_INFINITE.rawValue ->
Double.NEGATIVE_INFINITY\n else -> {\n // TODO: whether it's ok to convert to Double before
scaling\n convertDurationUnit(value.toDouble(), storageUnit, unit)\n }\n }\n }\n\n /**\n
* Returns the value of this duration expressed as a [Long] number of the specified [unit].\n * If the result
doesn't fit in the range of [Long] type, it is coerced into that range:\n * - [Long.MIN_VALUE] is returned if it's
less than `Long.MIN_VALUE`,\n * - [Long.MAX_VALUE] is returned if it's greater than
`Long.MAX_VALUE`.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public fun toLong(unit: DurationUnit): Long {\n
return when (rawValue) {\n INFINITE.rawValue -> Long.MAX_VALUE\n
NEG_INFINITE.rawValue -> Long.MIN_VALUE\n else -> convertDurationUnit(value, storageUnit, unit)\n
}\n }\n\n /**\n
* Returns the value of this duration expressed as an [Int] number of the specified [unit].\n
*\n * If the result doesn't fit in the range of [Int] type, it is coerced into that range:\n
* - [Int.MIN_VALUE] is returned if it's less than `Int.MIN_VALUE`,\n
* - [Int.MAX_VALUE] is returned if it's greater than `Int.MAX_VALUE`.\n
*\n * An infinite duration value is converted either to [Int.MAX_VALUE] or
[Int.MIN_VALUE] depending on its sign.\n */\n public fun toInt(unit: DurationUnit): Int =\n
toLong(unit).coerceIn(Int.MIN_VALUE.toInt(), Int.MAX_VALUE.toInt()).toInt()\n\n /** The value of this
duration expressed as a [Double] number of days. *\n @ExperimentalTime\n @Deprecated("Use inWholeDays
property instead

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or convert toDouble(DAYS) if a double value is required.\", ReplaceWith(\"toDouble(DurationUnit.DAYS)\")\n
public val inDays: Double get() = toDouble(DurationUnit.DAYS)\n\n /** The value of this duration expressed as
a [Double] number of hours. *\n @ExperimentalTime\n @Deprecated(\"Use inWholeHours property instead or
convert toDouble(HOURS) if a double value is required.\", ReplaceWith(\"toDouble(DurationUnit.HOURS)\")\n
public val inHours: Double get() = toDouble(DurationUnit.HOURS)\n\n /** The value of this duration expressed
as a [Double] number of minutes. *\n @ExperimentalTime\n @Deprecated(\"Use inWholeMinutes property
instead or convert toDouble(MINUTES) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.MINUTES)\")\n public val inMinutes: Double get() =
toDouble(DurationUnit.MINUTES)\n\n /** The value of this duration expressed as a [Double] number of seconds.
*\n @ExperimentalTime\n @Deprecated(\"Use inWholeSeconds
property instead or convert toDouble(SECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.SECONDS)\")\n public val inSeconds: Double get() =
toDouble(DurationUnit.SECONDS)\n\n /** The value of this duration expressed as a [Double] number of
milliseconds. *\n @ExperimentalTime\n @Deprecated(\"Use inWholeMilliseconds property instead or convert
toDouble(MILLISECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.MILLISECONDS)\")\n public val inMilliseconds: Double get() =
toDouble(DurationUnit.MILLISECONDS)\n\n /** The value of this duration expressed as a [Double] number of
microseconds. *\n @ExperimentalTime\n @Deprecated(\"Use inWholeMicroseconds property instead or
convert toDouble(MICROSECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.MICROSECONDS)\")\n public val inMicroseconds: Double get() =
toDouble(DurationUnit.MICROSECONDS)\n\n /** The value of this duration expressed
as a [Double] number of nanoseconds. *\n @ExperimentalTime\n @Deprecated(\"Use inWholeNanoseconds
property instead or convert toDouble(NANOSECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.NANOSECONDS)\")\n public val inNanoseconds: Double get() =
toDouble(DurationUnit.NANOSECONDS)\n\n\n /**\n * The value of this duration expressed as a [Long]
number of days.\n *\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n *\n public val inWholeDays: Long\n get() =
toLong(DurationUnit.DAYS)\n\n /**\n * The value of this duration expressed as a [Long] number of hours.\n
*\n * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending
on its sign.\n *\n public val inWholeHours: Long\n get() = toLong(DurationUnit.HOURS)\n\n /**\n *
The value of this duration expressed as a [Long] number of
minutes.\n *\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n *\n public val inWholeMinutes: Long\n get() =
toLong(DurationUnit.MINUTES)\n\n /**\n * The value of this duration expressed as a [Long] number of
seconds.\n *\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n *\n public val inWholeSeconds: Long\n get() =
toLong(DurationUnit.SECONDS)\n\n /**\n * The value of this duration expressed as a [Long] number of
milliseconds.\n *\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n *\n public val inWholeMilliseconds: Long\n get() {\n
return if (isInMillis() && isFinite()) value else toLong(DurationUnit.MILLISECONDS)\n } \n\n /**\n *
The value of this duration expressed as a [Long] number
of microseconds.\n *\n * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n *
- [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * - [Long.MAX_VALUE] is returned
if it's greater than `Long.MAX_VALUE`.\n *\n * An infinite duration value is converted either to
[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n *\n public val inWholeMicroseconds:
Long\n get() = toLong(DurationUnit.MICROSECONDS)\n\n\n /**\n * The value of this duration expressed
as a [Long] number of nanoseconds.\n *\n * If the result doesn't fit in the range of [Long] type, it is coerced
into that range:\n * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * -

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[Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.
 * An infinite duration value
is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.
 * public val
inWholeNanoseconds: Long
 get() {
    val value = value
    return when {
        isInNanos()
        -> value
        value > Long.MAX_VALUE / NANOS_IN_MILLIS -> Long.MAX_VALUE
        value < Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE
        else -> millisToNanos(value)
    }
 } // shortcuts
 /**
  * Returns the value of this duration expressed as a [Long] number of
nanoseconds.
 * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the
conversion [Double.toLong] for details.
 * The range of durations that can be expressed as a `Long`
number of nanoseconds is approximately 1292 years.
 * @ExperimentalTime @Deprecated("Use
inWholeNanoseconds property instead.", ReplaceWith("this.inWholeNanoseconds"))
 public fun
toLongNanoseconds(): Long = inWholeNanoseconds
 /**
  * Returns the value of this
duration expressed as a [Long] number of milliseconds.
 * The value is coerced to the range of [Long]
type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.
 * The range of
durations that can be expressed as a `Long` number of milliseconds is approximately 1292 million years.
 * @ExperimentalTime @Deprecated("Use inWholeMilliseconds property instead.",
ReplaceWith("this.inWholeMilliseconds"))
 public fun toLongMilliseconds(): Long = inWholeMilliseconds
 /**
  * Returns a string representation of this duration value
 * expressed as a combination of numeric
components, each in its own unit.
 * Each component is a number followed by the unit abbreviated name:
`d`, `h`, `m`, `s`, `5h`, `1d 12h`, `1h 0m 30.340s`.
 * The last component, usually seconds, can be a
number with a fractional part.
 * If the duration is less than a second, it is represented
as a single number
 * with one of sub-second units: `ms` (milliseconds), `us` (microseconds), or `ns`
(nanoseconds).
 * A negative duration is prefixed with `-` sign and, if
it consists of multiple components, surrounded with parentheses: `-12m` and `-(1h 30m)`.
 * Special
cases:
 * - an infinite duration is formatted as `"Infinity"` or `"-Infinity"` without a unit.
 * It's
recommended to use [toIsoString] that uses more strict ISO-8601 format instead of this `toString`
 * when you
want to convert a duration to a string in cases of serialization, interchange, etc.
 * @sample
samples.time.Durations.toStringDefault
 * override fun toString(): String = when (rawValue) {
    OL ->
    "0s"
    INFINITE.rawValue -> "Infinity"
    NEG_INFINITE.rawValue -> "-Infinity"
    else -> {
        val isNegative = isNegative()
        buildString {
            if (isNegative) append('-')
            absoluteValue.toComponents { days, hours, minutes, seconds,
nanoseconds ->
                val hasDays = days != 0L
                val hasHours = hours != 0L
                val
hasMinutes = minutes != 0L
                val hasSeconds = seconds != 0 || nanoseconds != 0L
                var
components = 0L
                if (hasDays) {
                    append(days).append('d')
                    components++
                }
                if (hasHours || (hasDays && (hasMinutes || hasSeconds))) {
                    if (components++ > 0) append(' ')
                    append(hours).append('h')
                    }
                if
(hasMinutes || (hasSeconds && (hasHours || hasDays))) {
                    if (components++ > 0) append(' ')
                    append(minutes).append('m')
                    }
                if
(hasSeconds) {
                    if (components++ > 0) append(' ')
                    when {
                        seconds != 0 || hasDays || hasHours || hasMinutes ->
                        appendFractional(seconds, nanoseconds, 9,
"s", isoZeroes = false)
                        nanoseconds >= 1_000_000 ->
                        appendFractional(nanoseconds / 1_000_000, nanoseconds % 1_000_000, 6, "ms", isoZeroes = false)
                        nanoseconds >= 1_000 ->
                        appendFractional(nanoseconds / 1_000, nanoseconds % 1_000,
3, "us", isoZeroes = false)
                        else ->
                        append(nanoseconds).append("ns")
                    }
                }
                if (isNegative && components > 1) insert(1, '(').append(')')
            }
        }
    }
 } private fun StringBuilder.appendFractional(whole: Int,
fractional: Int, fractionalSize: Int, unit: String, isoZeroes: Boolean) {
    append(whole)
    if (fractional != 0)
    {
        append('.')
        val fracString = fractional.toString().padStart(fractionalSize, '0')
        val
nonZeroDigits = fracString.indexOfLast { it != '0' } + 1
        when {
            !isoZeroes && nonZeroDigits <

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3 -> appendRange(fracString, 0, nonZeroDigits)\n      else -> appendRange(fracString, 0, ((nonZeroDigits + 2)
/ 3) * 3)\n    }\n    }\n    append(unit)\n  }\n\n /**\n * Returns a string representation of this duration
value expressed in the given [unit]\n * and formatted with the specified [decimals] number of digits after decimal
point.\n *\n * Special cases:\n * - an infinite duration is formatted as `\"Infinity\"` or `\"-Infinity\"` without a
unit.\n *\n * @param decimals the number of digits after decimal point to show. The value must be non-
negative.\n
* No more than 12 decimals will be shown, even if a larger number is requested.\n *\n * @return the value
of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n
*\n * @throws IllegalArgumentException if [decimals] is less than zero.\n *\n * @sample
samples.time.Durations.toStringDecimals\n */\n public fun toString(unit: DurationUnit, decimals: Int = 0):
String {\n     require(decimals >= 0) { \"decimals must be not negative, but was $decimals\" }\n     val number =
toDouble(unit)\n     if (number.isInfinite()) return number.toString()\n     return formatToExactDecimals(number,
decimals.coerceAtMost(12)) + unit.shortName()\n }\n\n /**\n * Returns an ISO-8601 based string
representation of this duration.\n *\n * The returned value is presented in the format `PTHmMs.fS`, where `h`,
`m`, `s` are the integer components of this duration (see [toComponents])\n
* and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be
formatted with either\n * 0, 3, 6, or 9 decimal digits.\n *\n * The infinite duration is represented as
`\"PT9999999999999999H\"` which is larger than any possible finite duration in Kotlin.\n *\n * Negative durations
are indicated with the sign `-` in the beginning of the returned string, for example, `\"-PT5M30S\"`.\n *\n *
@sample samples.time.Durations.toIsoString\n */\n public fun toIsoString(): String = buildString {\n     if
(isNegative()) append('-')\n     append(\"PT\")\n     this@Duration.absoluteValue.toComponents { hours,
minutes, seconds, nanoseconds -> \n         @Suppress(\"NAME_SHADOWING\")\n         var hours = hours\n         if (isInfinite()) {\n             // use large enough value instead of Long.MAX_VALUE\n             hours =
9_999_999_999_999\n         }\n         val hasHours = hours !=
0L\n         val hasSeconds = seconds != 0 || nanoseconds != 0\n         val hasMinutes = minutes != 0 ||
(hasSeconds && hasHours)\n         if (hasHours) {\n             append(hours).append('H')\n         }\n         if
(hasMinutes) {\n             append(minutes).append('M')\n         }\n         if (hasSeconds || (!hasHours &&
!hasMinutes)) {\n             appendFractional(seconds, nanoseconds, 9, \"S\", isoZeroes = true)\n         }\n     }\n }\n\n // constructing from number of units\n// extension functions\n\n /** Returns a [Duration] equal to this [Int]
number of the specified [unit]. *\n * @SinceKotlin(\"1.6\")\n * @WasExperimental(ExperimentalTime::class)\n */\n public
fun Int.toDuration(unit: DurationUnit): Duration {\n     return if (unit <= DurationUnit.SECONDS) {\n         durationOfNanos(convertDurationUnitOverflow(this.toLong(), unit, DurationUnit.NANOSECONDS))\n     } else {\n         toLong().toDuration(unit)\n     }\n }\n\n /** Returns a [Duration] equal
to this [Long] number of the specified [unit].\n
*\n * @SinceKotlin(\"1.6\")\n * @WasExperimental(ExperimentalTime::class)\n */\n public fun Long.toDuration(unit:
DurationUnit): Duration {\n     val maxNsInUnit = convertDurationUnitOverflow(MAX_NANOS,
DurationUnit.NANOSECONDS, unit)\n     if (this in -maxNsInUnit..maxNsInUnit) {\n         return
durationOfNanos(convertDurationUnitOverflow(this, unit, DurationUnit.NANOSECONDS))\n     } else {\n         val
millis = convertDurationUnit(this, unit, DurationUnit.MILLISECONDS)\n         return
durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n     }\n }\n\n /** Returns a [Duration] equal
to this [Double] number of the specified [unit].\n *\n * Depending on its magnitude, the value is rounded to an
integer number of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this `Double` value is
`NaN`.\n *\n * @SinceKotlin(\"1.6\")\n * @WasExperimental(ExperimentalTime::class)\n */\n public fun
Double.toDuration(unit: DurationUnit): Duration
{\n     val valueInNs = convertDurationUnit(this, unit, DurationUnit.NANOSECONDS)\n     require(!valueInNs.isNaN()) { \"Duration value cannot be NaN.\" }\n     val nanos = valueInNs.roundToLong()\n     return if (nanos in -MAX_NANOS..MAX_NANOS) {\n         durationOfNanos(nanos)\n     } else {\n         val millis =
convertDurationUnit(this, unit, DurationUnit.MILLISECONDS).roundToLong()\n

```

```

durationOfMillisNormalized(millis)\n } \n\n// constructing from number of units\n// deprecated extension
properties\n\n/** Returns a [Duration] equal to this [Int] number of nanoseconds.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.nanoseconds' extension property from
Duration.Companion instead.", ReplaceWith("this.nanoseconds"),
"\kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this
[Long] number of nanoseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.nanoseconds' extension property from Duration.Companion instead.", ReplaceWith("this.nanoseconds"),
"\kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/**\n * Returns a [Duration] equal to this
[Double] number of nanoseconds.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.nanoseconds' extension property
from Duration.Companion instead.", ReplaceWith("this.nanoseconds"),
"\kotlin.time.Duration.Companion.nanoseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to
this [Int] number of microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Int.microseconds' extension
property from Duration.Companion instead.", ReplaceWith("this.microseconds"),
"\kotlin.time.Duration.Companion.microseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this
[Long] number of microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.microseconds' extension property from Duration.Companion instead.", ReplaceWith("this.microseconds"),
"\kotlin.time.Duration.Companion.microseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/**\n * Returns a [Duration] equal to
this [Double] number of microseconds.\n * \n * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.microseconds' extension
property from Duration.Companion instead.", ReplaceWith("this.microseconds"),
"\kotlin.time.Duration.Companion.microseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to
this [Int] number of milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Int.milliseconds' extension property from Duration.Companion instead.", ReplaceWith("this.milliseconds"),
"\kotlin.time.Duration.Companion.milliseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this
[Long] number of milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.milliseconds' extension property from Duration.Companion instead.", ReplaceWith("this.milliseconds"),
"\kotlin.time.Duration.Companion.milliseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of milliseconds.\n * \n * @throws IllegalArgumentException
if this [Double] value is `NaN`.\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Double.milliseconds' extension property from Duration.Companion instead.", ReplaceWith("this.milliseconds"),
"\kotlin.time.Duration.Companion.milliseconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this
[Int] number of seconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.seconds'
extension property from Duration.Companion instead.", ReplaceWith("this.seconds"),
"\kotlin.time.Duration.Companion.seconds"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of
seconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use

```

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'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\",
\"kotlin.time.Duration.Companion.seconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of seconds.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.seconds' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.seconds\",
\"kotlin.time.Duration.Companion.seconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n * Returns a [Duration] equal to this [Int]
number of minutes. *\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.minutes' extension
property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\",
\"kotlin.time.Duration.Companion.minutes\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Long] number of
minutes. *\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.minutes' extension property
from Duration.Companion instead.\", ReplaceWith(\"this.minutes\",
\"kotlin.time.Duration.Companion.minutes\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of minutes.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.minutes' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.minutes\",
\"kotlin.time.Duration.Companion.minutes\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.minutes
get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Int] number of hours.
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.hours' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.hours\",
\"kotlin.time.Duration.Companion.hours\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Int.hours get() = toDuration(DurationUnit.HOURS)\n\n/**\n * Returns a [Duration] equal to this [Long] number of
hours. *\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.hours' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.hours\",
\"kotlin.time.Duration.Companion.hours\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.hours get() = toDuration(DurationUnit.HOURS)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of hours.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use
'Double.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\",
\"kotlin.time.Duration.Companion.hours\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.hours get() = toDuration(DurationUnit.HOURS)\n\n/**\n * Returns a [Duration] equal to this [Int] number of
days. *\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.days
get() = toDuration(DurationUnit.DAYS)\n\n/**\n * Returns a [Duration] equal to this [Long] number of days.
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.days get() = toDuration(DurationUnit.DAYS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of days.\n
* \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.days'
extension property from Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.days get() = toDuration(DurationUnit.DAYS)\n\n/**\n * Returns a duration whose value is the specified

```



[duration] value multiplied by this number.

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic inline operator fun Int.times(duration: Duration): Duration = duration * this\n/*\n * Returns a duration whose value is the specified [duration] value multiplied by this number.\n * The operation may involve rounding when the result cannot be represented exactly with a [Double] number.\n * @throws IllegalArgumentException if the operation results in a `NaN` value.\n
```

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic inline operator fun Double.times(duration: Duration): Duration = duration * this\n\nprivate fun parseDuration(value: String, strictIso: Boolean): Duration {\n    var length = value.length\n    if (length == 0) throw IllegalArgumentException("The string is empty")\n    var index = 0\n    var result = Duration.ZERO\n    val infinityString = "Infinity"\n    when (value[index]) {\n        '+', '-' -> index++\n    }\n    val hasSign = index > 0\n    val isNegative = hasSign && value.startsWith('-')\n    when {\n        length <= index -> throw\n    }\n    IllegalArgumentException("No components")\n    value[index] == 'P' -> {\n        if (++index == length) throw\n    }\n    IllegalArgumentException()\n    val nonDigitSymbols = "+-."\n    var isTimeComponent = false\n    var prevUnit: DurationUnit?
```

```
= null\n    while (index < length) {\n        if (value[index] == 'T') {\n            if (isTimeComponent || ++index == length) throw IllegalArgumentException()\n            isTimeComponent = true\n        }\n        continue\n    }\n    val component = value.substringWhile(index) { it in '0'..'9' || it in nonDigitSymbols }\n    if (component.isEmpty()) throw IllegalArgumentException()\n    index += component.length\n    val unitChar = value.getOrElse(index) { throw IllegalArgumentException("Missing unit for value\n    $component") }\n    index++\n    val unit = durationUnitByIsoChar(unitChar, isTimeComponent)\n    if (prevUnit != null && prevUnit <= unit) throw IllegalArgumentException("Unexpected order of duration\n    components")\n    prevUnit = unit\n    val dotIndex = component.indexOf('.')\n    if (unit ==\n    DurationUnit.SECONDS
```

```
&& dotIndex > 0) {\n        val whole = component.substring(0, dotIndex)\n        result +=\n        parseOverLongIsoComponent(whole).toDuration(unit)\n        result +=\n        component.substring(dotIndex).toDouble().toDuration(unit)\n    } else {\n        result +=\n        parseOverLongIsoComponent(component).toDuration(unit)\n    }\n    }\n    strictIso -> {\n        throw IllegalArgumentException()\n        value.regionMatches(index, infinityString, 0, length = maxOf(length -\n        index, infinityString.length), ignoreCase = true) -> {\n            result = Duration.INFINITE\n        }\n        else -> {\n            // parse default string format\n            var prevUnit: DurationUnit? = null\n            var afterFirst = false\n            var allowSpaces = !hasSign\n            if (hasSign && value[index] == '(' && value.last() == ')') {\n                allowSpaces = true\n                if (++index
```

```
== --length) throw IllegalArgumentException("No components")\n    }\n    while (index < length) {\n        if (afterFirst && allowSpaces) {\n            index = value.skipWhile(index) { it == ' ' }\n        }\n        afterFirst = true\n        val component = value.substringWhile(index) { it in '0'..'9' || it == '.' }\n        if\n        (component.isEmpty()) throw IllegalArgumentException()\n        index += component.length\n        val\n        unitName = value.substringWhile(index) { it in 'a'..'z' }\n        index += unitName.length\n        val unit =\n        durationUnitByShortName(unitName)\n        if (prevUnit != null && prevUnit <= unit) throw\n        IllegalArgumentException("Unexpected order of duration components")\n        prevUnit = unit\n        val\n        dotIndex = component.indexOf('.')\n        if (dotIndex > 0) {\n            val whole = component.substring(0,\n            dotIndex)\n            result += whole.toLong().toDuration(unit)\n            result +=
```

```
component.substring(dotIndex).toDouble().toDuration(unit)\n        if (index < length) throw\n        IllegalArgumentException("Fractional component must be last")\n        } else {\n            result +=\n            component.toLong().toDuration(unit)\n        }\n    }\n    }\n    }\n    return if (isNegative) -result else\n    result\n}\n\nprivate fun parseOverLongIsoComponent(value: String): Long {\n    val length = value.length\n    var\n    startIndex = 0\n    if (length > 0 && value[0] in "+-") startIndex++\n    if ((length - startIndex) > 16 &&\n    (startIndex..value.lastIndex).all { value[it] in '0'..'9' }) {\n        // all chars are digits, but more than
```

```

ceiling(log10(MAX_MILLIS / 1000)) of them\n    return if (value[0] == '-') Long.MIN_VALUE else
Long.MAX_VALUE\n    }\n    // TODO: replace with just toLong after min JDK becomes 8\n    return if
(value.startsWith("+"))
    value.drop(1).toLong() else value.toLong()\n}\n\nprivate inline fun String.substringWhile(startIndex: Int,
predicate: (Char) -> Boolean): String =\n    substring(startIndex, skipWhile(startIndex, predicate))\n\nprivate inline
fun String.skipWhile(startIndex: Int, predicate: (Char) -> Boolean): Int {\n    var i = startIndex\n    while (i < length
&& predicate(this[i])) i++\n    return i}\n\n\n\n// The ranges are chosen so that they are:\n// - symmetric
relative to zero: this greatly simplifies operations with sign, e.g. unaryMinus and minus.\n// - non-overlapping, but
adjacent: the first value that doesn't fit in nanos range, can be exactly represented in millis.\n\n\ninternal const val
NANOS_IN_MILLIS = 1_000_000\n// maximum number duration can store in nanosecond range\n\ninternal const
val MAX_NANOS = Long.MAX_VALUE / 2 / NANOS_IN_MILLIS * NANOS_IN_MILLIS - 1 // ends in
..._999_999\n// maximum number duration can store in millisecond range, also encodes an
infinite value\n\ninternal const val MAX_MILLIS = Long.MAX_VALUE / 2\n// MAX_NANOS expressed in
milliseconds\n\nprivate const val MAX_NANOS_IN_MILLIS = MAX_NANOS / NANOS_IN_MILLIS\n\nprivate
fun nanosToMillis(nanos: Long): Long = nanos / NANOS_IN_MILLIS\n\nprivate fun millisToNanos(millis: Long):
Long = millis * NANOS_IN_MILLIS\n\nprivate fun durationOfNanos(normalNanos: Long) =
Duration(normalNanos shl 1)\n\nprivate fun durationOfMillis(normalMillis: Long) = Duration((normalMillis shl 1) +
1)\n\nprivate fun durationOf(normalValue: Long, unitDiscriminator: Int) = Duration((normalValue shl 1) +
unitDiscriminator)\n\nprivate fun durationOfNanosNormalized(nanos: Long) =\n    if (nanos in -
MAX_NANOS..MAX_NANOS) {\n        durationOfNanos(nanos)\n    } else {\n
durationOfMillis(nanosToMillis(nanos))\n    }\n\nprivate fun durationOfMillisNormalized(millis: Long) =\n    if
(millis in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n
durationOfNanos(millisToNanos(millis))\n    } else {\n
durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n    }\n\n\ninternal expect val
durationAssertionsEnabled: Boolean\n\n\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int):
String\n\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String", "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmName("\\UnsignedKt")\n\npackage kotlin\n\n\n@PublishedApi\n\ninternal fun uintCompare(v1:
Int, v2: Int): Int = (v1 xor Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n\n@PublishedApi\n\ninternal fun
ulongCompare(v1: Long, v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor
Long.MIN_VALUE)\n\n\n@PublishedApi\n\ninternal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() /
v2.toLong()).toUInt()\n\n\n@PublishedApi\n\ninternal fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong()
% v2.toLong()).toUInt()\n\n\n// Division and remainder are based on Guava's UnsignedLongs implementation\n\n\n
Copyright 2011 The Guava Authors\n\n\n@PublishedApi\n\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong
{\n    val dividend = v1.toLong()\n    val divisor = v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n
return if (v1 < v2) ULong(0) else ULong(1)\n    }\n\n    // Optimization - use signed division if both dividend and
divisor < 2^63\n    if (dividend >= 0) {\n        return ULong(dividend / divisor)\n    }\n\n    // Otherwise, approximate
the quotient, check, and correct if necessary.\n    val quotient = ((dividend ushr 1) / divisor) shl 1\n    val rem =
dividend - quotient * divisor\n    return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else
0)\n\n}\n\n\n@PublishedApi\n\ninternal fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n    val dividend =
v1.toLong()\n    val divisor = v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n
return if (v1 < v2) {\n        v1 // dividend < divisor\n    } else {\n        v1 - v2 // dividend >= divisor\n
    }\n\n    // Optimization - use signed modulus if both dividend and divisor < 2^63\n    if (dividend >= 0) {\n
return ULong(dividend % divisor)\n    }\n\n    // Otherwise, approximate the quotient, check, and correct if
necessary.\n    val quotient = ((dividend ushr 1) / divisor) shl 1\n    val rem = dividend - quotient * divisor\n    return
ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\n\n}\n\n\n@PublishedApi\n\ninternal fun
doubleToUInt(v: Double): UInt = when {\n    v.isNaN() -> 0\n    v <= UInt.MIN_VALUE.toDouble() ->

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UInt.MIN_VALUE\n    v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\n    v <= Int.MAX_VALUE -
> v.toInt().toUInt()\n    else -> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt()    //
Int.MAX_VALUE < v < UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double):
ULong = when {\n    v.isNaN()\n    -> 0u\n    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n    v >=
ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n    v < Long.MAX_VALUE ->
v.toLong().toULong()\n}\n    // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not
representable in Double, so don't handle them.\n    else -> (v - 9223372036854775808.0).toLong().toULong() +
9223372036854775808uL    // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE\n}\n\n\n@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and
Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n\n@PublishedApi\ninternal fun
ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n}\n\n\ninternal fun
ulongToString(v: Long): String = ulongToString(v, 10)\n\n\ninternal fun ulongToString(v: Long, base: Int): String {\n
    if (v >= 0) return v.toString(base)\n    var quotient = ((v ushr 1) / base) shl 1\n    var rem = v - quotient * base\n
    if (rem >= base) {\n        rem -= base\n        quotient += 1\n    }\n    return quotient.toString(base) + rem.toString(base)\n}\n\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through
the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T>
= object : Iterable<T> {\n    override fun iterator(): Iterator<T> = iterator()\n}\n\n\n/**\n * A wrapper over another
[Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\n\ninternal class
IndexingIterable<out T>(private val iteratorFactory:
() -> Iterator<T>) : Iterable<IndexedValue<T>> {\n    override fun iterator(): Iterator<IndexedValue<T>> =
IndexingIterator(iteratorFactory())\n}\n\n\n\n/**\n * Returns the size of this iterable if it is known, or `null`
otherwise.\n */\n\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrNull(): Int? = if (this is
Collection<*>) this.size else null\n\n\n/**\n * Returns the size of this iterable if it is known, or the specified [default]
value otherwise.\n */\n\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrDefault(default: Int): Int = if
(this is Collection<*>) this.size else default\n\n\n\n/**\n * Returns a single list of all elements from all collections in
the given collection.\n * @sample samples.collections.Iterables.Operations.flattenIterable\n */\n\npublic fun <T>
Iterable<Iterable<T>>.flatten(): List<T> {\n    val result = ArrayList<T>()\n    for (element in this) {\n
        result.addAll(element)\n    }\n    return result\n}\n\n\n\n/**\n * Returns a pair
of lists, where\n * *first* list is built from the first values of each pair from this collection,\n * *second* list is built
from the second values of each pair from this collection.\n * @sample
samples.collections.Iterables.Operations.unzipIterable\n */\n\npublic fun <T, R> Iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n    val expectedSize = collectionSizeOrDefault(10)\n    val listT =
ArrayList<T>(expectedSize)\n    val listR = ArrayList<R>(expectedSize)\n    for (pair in this) {\n
        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n\n", /*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\SequencesKt")\n\npackage
kotlin.sequences\n\nimport kotlin.random.Random\n\n\n/**\n * Given an [iterator] function constructs
a [Sequence] that returns values through the [Iterator]\n * provided by that function.\n * The values are evaluated
lazily, and the sequence is potentially infinite.\n */\n * @sample
samples.collections.Sequences.Building.sequenceFromIterator\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {\n    override fun

```

```

iterator(): Iterator<T> = iterator()\n\n/**\n * Creates a sequence that returns all elements from this iterator. The
sequence is constrained to be iterated only once.\n *\n * @sample
samples.collections.Sequences.Building.sequenceFromIterator\n *\npublic fun <T> Iterator<T>.asSequence():
Sequence<T> = Sequence { this }.constrainOnce()\n\n/**\n * Creates a sequence that returns the specified values.\n\n
*\n * @sample samples.collections.Sequences.Building.sequenceOfValues\n *\npublic fun <T> sequenceOf(vararg
elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()\n\n/**\n
* Returns an empty sequence.\n *\npublic fun <T> emptySequence(): Sequence<T> = EmptySequence\n\nprivate
object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {\n    override fun iterator():
Iterator<Nothing> = EmptyIterator\n    override fun drop(n: Int) = EmptySequence\n    override fun take(n: Int) =
EmptySequence\n}\n\n/**\n * Returns this sequence if it's not `null` and the empty sequence otherwise.\n *\n
@sample samples.collections.Sequences.Usage.sequenceOrEmpty\n\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orEmpty():
Sequence<T> = this ?: emptySequence()\n\n\n/**\n * Returns a sequence that iterates through the elements either of
this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n\n
*\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n *\n@SinceKotlin("1.3")\npublic fun
<T> Sequence<T>.ifEmpty(defaultValue: () ->
Sequence<T>): Sequence<T> = sequence {\n    val iterator = this@ifEmpty.iterator()\n    if (iterator.hasNext()) {\n
yieldAll(iterator)\n    } else {\n        yieldAll(defaultValue())\n    }\n}\n\n/**\n * Returns a sequence of all
elements from all sequences in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@sample samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n *\npublic fun <T>
Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a sequence of all
elements from all iterables in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@sample samples.collections.Sequences.Transformations.flattenSequenceOfLists\n\n
*\n@kotlin.jvm.JvmName("flattenSequenceOfIterable")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):
Sequence<R> {\n    if (this is
TransformingSequence<*, *>) {\n        return (this as TransformingSequence<*, T>).flatten(iterator)\n    }\n
return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built
from the first values of each pair from this sequence,\n * *second* list is built from the second values of each pair
from this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Sequences.Transformations.unzip\n *\npublic fun <T, R> Sequence<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>()\n    val listR = ArrayList<R>()\n    for (pair in this) {\n
listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n/**\n * Returns a sequence that
yields elements of this sequence randomly shuffled.\n *\n * Note that every iteration of the sequence returns
elements in a different order.\n *\n * The operation is _intermediate_ and _stateful_.\n\n
*\n@SinceKotlin("1.4")\npublic
fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n/**\n * Returns a sequence that yields
elements of this sequence randomly shuffled\n * using the specified [random] instance as the source of
randomness.\n *\n * Note that every iteration of the sequence returns elements in a different order.\n *\n * The
operation is _intermediate_ and _stateful_.\n *\n@SinceKotlin("1.4")\npublic fun <T>
Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n    val buffer = toMutableList()\n    while
(buffer.isNotEmpty()) {\n        val j = random.nextInt(buffer.size)\n        val last = buffer.removeLast()\n
val value = if (j < buffer.size) buffer.set(j, last) else last\n        yield(value)\n    }\n}\n\n/**\n * A sequence that
returns the values from the underlying [sequence] that either match or do not match\n * the specified [predicate].\n\n
*\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\n *
values for which the predicate returns `false` are returned\n *\ninternal class FilteringSequence<T>(\n    private val
sequence: Sequence<T>,\n    private val sendWhen: Boolean = true,\n    private val predicate: (T) -> Boolean)\n):
Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator =

```

```

sequence.iterator()\n    var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n    var nextItem: T?
= null\n\n    private fun calcNext() {\n        while (iterator.hasNext()) {\n            val item = iterator.next()\n            if (predicate(item) == sendWhen) {\n                nextItem = item\n                nextState = 1\n            }\n        }\n        nextState = 0\n    }\n\n    override fun next(): T {\n        if (nextState == -1)\n            calcNext()\n        if (nextState == 0)\n            throw NoSuchElementException()\n        val result = nextItem\n        nextItem = null\n        nextState = -1\n    }\n\n    @Suppress("UNCHECKED_CAST")\n    return result as T\n}\n\noverride fun hasNext(): Boolean
{\n    if (nextState == -1)\n        calcNext()\n    return nextState == 1\n}\n}\n\n**\n * A
sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying
[sequence].\n *^\n\ninternal class TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>,
private val transformer: (T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n
        val iterator = sequence.iterator()\n        override fun next(): R {\n            return transformer(iterator.next())\n
        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n\n    internal fun <E>
flatten(iterator: (R) -> Iterator<E>):
Sequence<E> {\n        return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n    }\n}\n\n**\n * A
sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying
[sequence], where the transformer function takes the index of the value in the underlying\n * sequence along with
the value itself.\n *^\n\ninternal class TransformingIndexedSequence<T, R>\nconstructor(private val sequence:
Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> =
object : Iterator<R> {\n        val iterator = sequence.iterator()\n        var index = 0\n        override fun next(): R {\n
            return transformer(checkIndexOverflow(index++), iterator.next())\n        }\n\n        override fun hasNext():
Boolean {\n            return iterator.hasNext()\n        }\n    }\n}\n\n**\n * A sequence which combines values from
the underlying [sequence] with their indices and returns them as\n *
[IndexValue] objects.\n *^\n\ninternal class IndexingSequence<T>\nconstructor(private val sequence:
Sequence<T>) : Sequence<IndexedValue<T>> {\n    override fun iterator(): Iterator<IndexedValue<T>> = object :
Iterator<IndexedValue<T>> {\n        val iterator = sequence.iterator()\n        var index = 0\n        override fun next():
IndexedValue<T> {\n            return IndexedValue(checkIndexOverflow(index++), iterator.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n}\n\n**\n * A sequence which
takes the values from two parallel underlying sequences, passes them to the given\n * [transform] function and
returns the values returned by that function. The sequence stops returning\n * values as soon as one of the
underlying sequences stops returning values.\n *^\n\ninternal class MergingSequence<T1, T2, V>\nconstructor(\n    private val sequence1: Sequence<T1>,\n    private val sequence2: Sequence<T2>,\n    private
val transform: (T1, T2) -> V\n) : Sequence<V> {\n    override fun iterator(): Iterator<V> = object : Iterator<V> {\n
        val iterator1 = sequence1.iterator()\n        val iterator2 = sequence2.iterator()\n        override fun next(): V {\n
            return transform(iterator1.next(), iterator2.next())\n        }\n\n        override fun hasNext(): Boolean {\n
            return iterator1.hasNext() && iterator2.hasNext()\n        }\n    }\n}\n\ninternal class FlatteningSequence<T, R,
E>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val transformer: (T) -> R,\n    private val
iterator: (R) -> Iterator<E>\n) : Sequence<E> {\n    override fun iterator(): Iterator<E> = object : Iterator<E> {\n
        val iterator = sequence.iterator()\n        var itemIterator: Iterator<E>? = null\n        override fun next(): E {\n
            if (!ensureItemIterator())\n                throw NoSuchElementException()\n            return itemIterator!!.next()\n
        }\n\n        override
        fun hasNext(): Boolean {\n            return ensureItemIterator()\n        }\n\n        private fun ensureItemIterator():
Boolean {\n            if (itemIterator?.hasNext() == false)\n                itemIterator = null\n            while (itemIterator
== null) {\n                if (!iterator.hasNext())\n                    return false\n            } else {\n                val
element = iterator.next()\n                val nextItemIterator = iterator(transformer(element))\n                if
(nextItemIterator.hasNext()) {\n                    itemIterator = nextItemIterator\n                    return true\n                }\n            }\n        }\n    }\n\n    internal fun <T, C, R> flatMapIndexed(source:
Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =\n    sequence {\n        var

```

```

index = 0\n    for (element in source) {\n        val result = transform(checkIndexOverflow(index++),
element)\n        yieldAll(iterator(result))\n    }\n }\n\n/**\n * A sequence that supports drop(n) and take(n)
operations\n */\n\ninternal interface DropTakeSequence<T> : Sequence<T> {\n    fun drop(n: Int): Sequence<T>\n\n    fun take(n: Int): Sequence<T>\n}\n\n/**\n * A sequence that skips [startIndex] values from the underlying
[sequence]\n * and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\n */\n\ninternal class
SubSequence<T>(\n    private val sequence: Sequence<T>,\n    private val startIndex: Int,\n    private val endIndex:
Int\n) : Sequence<T>, DropTakeSequence<T> {\n\n    init {\n        require(startIndex >= 0) { \"startIndex should be
non-negative, but is $startIndex\" }\n        require(endIndex >= 0) { \"endIndex should be non-negative, but is
$endIndex\" }\n        require(endIndex >= startIndex) { \"endIndex should be not less than startIndex, but was
$endIndex < $startIndex\" }\n    }\n\n    private val count:
Int get() = endIndex - startIndex\n\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence()
else SubSequence(sequence, startIndex + n, endIndex)\n\n    override fun take(n: Int): Sequence<T> = if (n >= count)
this else SubSequence(sequence, startIndex, startIndex + n)\n\n    override fun iterator(): object : Iterator<T> {\n\n        val iterator = sequence.iterator()\n        var position = 0\n\n        // Shouldn't be called from constructor to avoid
premature iteration\n        private fun drop() {\n            while (position < startIndex && iterator.hasNext()) {\n                iterator.next()\n                position++\n            }\n        }\n\n        override fun hasNext(): Boolean {\n            drop()\n            return (position < endIndex) && iterator.hasNext()\n        }\n\n        override fun next(): T {\n            drop()\n            if (position >= endIndex)\n                throw NoSuchElementException()\n            position++\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * A sequence that returns at most [count] values from the
underlying [sequence], and stops returning values\n * as soon as that count is reached.\n */\n\ninternal class
TakeSequence<T>(\n    private val sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>,
DropTakeSequence<T> {\n\n    init {\n        require(count >= 0) { \"count must be non-negative, but was $count.\" }\n    }\n\n    override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else
SubSequence(sequence, n, count)\n\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else
TakeSequence(sequence, n)\n\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        var left =
count\n        val iterator = sequence.iterator()\n\n        override fun next(): T {\n            if (left == 0)\n                throw
NoSuchElementException()\n            left--\n            return iterator.next()\n        }\n\n        override
fun hasNext(): Boolean {\n            return left > 0 && iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence that
returns values from the underlying [sequence] while the [predicate] function returns\n * `true`, and stops returning
values once the function returns `false` for the next element.\n */\n\ninternal class
TakeWhileSequence<T>(\n    private val sequence: Sequence<T>,\n    private val predicate: (T) ->
Boolean\n) : Sequence<T> {\n\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator =
sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T?
= null\n\n        private fun calcNext() {\n            if (iterator.hasNext()) {\n                val item = iterator.next()\n                if (predicate(item)) {\n                    nextState = 1\n                    nextItem = item\n                    return\n                }\n                nextState
= 0\n            }\n\n            override fun next(): T {\n                if (nextState == -1)\n                    calcNext() // will change
nextState\n                if (nextState == 0)\n                    throw NoSuchElementException()\n                @Suppress(\"UNCHECKED_CAST\")\n                val result = nextItem as T\n                // Clean next to avoid keeping
reference on yielded instance\n                nextItem = null\n                nextState = -1\n                return result\n            }\n\n            override fun hasNext(): Boolean {\n                if (nextState == -1)\n                    calcNext() // will change nextState\n                return nextState == 1\n            }\n        }\n    }\n}\n\n/**\n * A sequence that skips the specified number of values from the
underlying [sequence] and returns\n * all values after that.\n */\n\ninternal class DropSequence<T>(\n    private val
sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n\n    init {\n        require(count >= 0) { \"count must
be non-negative, but was $count.\" }\n    }\n\n    override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if
(n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n\n    override fun take(n: Int): Sequence<T> =
(count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else SubSequence(sequence, count, n1) }\n\n    override fun

```

```

iterator(): Iterator<T> = object : Iterator<T> {
    val iterator = sequence.iterator()
    var left = count
    // Shouldn't be called from constructor to avoid premature iteration
    private fun drop() {
        while (left > 0 && iterator.hasNext()) {
            iterator.next()
            left--
        }
    }
    override fun next(): T {
        drop()
        return iterator.next()
    }
    override fun hasNext(): Boolean {
        drop()
        return iterator.hasNext()
    }
}

```

\* A sequence that skips the values from the underlying [sequence] while the given [predicate] returns `true` and returns all values after that.

```

internal class DropWhileSequence<T>(
    constructor(
        private val sequence: Sequence<T>,
        private val predicate: (T) -> Boolean
    ): Sequence<T> {
    override fun iterator(): Iterator<T> = object : Iterator<T> {
        val iterator = sequence.iterator()
        var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration
        var nextItem: T? = null
        private fun drop() {
            while (iterator.hasNext()) {
                val item = iterator.next()
                if (!predicate(item)) {
                    nextItem = item
                    dropState = 1
                }
            }
            dropState = 0
        }
        override fun next(): T {
            if (dropState == -1) {
                drop()
                if (dropState == 1) {
                    @Suppress("UNCHECKED_CAST")
                    val result = nextItem as T
                    nextItem = null
                    dropState = 0
                    return result
                }
            }
            return iterator.next()
        }
        override fun hasNext(): Boolean {
            if (dropState == -1) {
                drop()
                return dropState == 1 || iterator.hasNext()
            }
        }
    }
}

```

internal class DistinctSequence<T, K>(
 private val source: Sequence<T>,
 private val keySelector: (T) -> K
): Sequence<T> {
 override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)
}

private class DistinctIterator<T, K>(
 private val source: Iterator<T>,
 private val keySelector: (T) -> K
): AbstractIterator<T>() {
 private val observed = HashSet<K>()
 override fun computeNext() {
 while (source.hasNext()) {
 val next = source.next()
 val key = keySelector(next)
 if (observed.add(key)) {
 setNext(next)
 }
 }
 done()
 }
}

private class GeneratorSequence<T : Any>(
 private val getInitialValue: () -> T?,
 private val getNextValue: (T) -> T?
): Sequence<T> {
 override fun iterator(): Iterator<T> = object : Iterator<T> {
 var nextItem: T? = null
 var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue
 private fun calcNext() {
 nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)
 nextState = if (nextItem == null) 0 else 1
 }
 override fun next(): T {
 if (nextState < 0) {
 calcNext()
 if (nextState == 0) {
 throw NoSuchElementException()
 }
 val result = nextItem as T // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue
 nextState = -1
 return result
 }
 override fun hasNext(): Boolean {
 if (nextState < 0) {
 calcNext()
 return nextState == 1
 }
 }
 }
 }
}

\* Returns a wrapper sequence that provides values of this sequence, but ensures it can be iterated only one time.

\* The operation is `_intermediate_` and `_stateless_`.

\* [IllegalStateException] is thrown on iterating the returned sequence for the second time and the following times.

```

public fun <T> Sequence<T>.constrainOnce(): Sequence<T> {
    // as? does not work in js
    //return this as? ConstrainedOnceSequence<T> ? : ConstrainedOnceSequence(this)
    return if (this is ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)
}

```

\* Returns a sequence which invokes the function to calculate the next value on each iteration until the function returns `null`.

\* The returned sequence is constrained to be iterated only once.

\* @see constrainOnce

\* @see kotlin.sequences.sequence

\* @sample samples.collections.Sequences.Building.generateSequence

```

public fun <T : Any> generateSequence(
    nextFunction: () -> T?
): Sequence<T> {
    return GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()
}

```

\* Returns a sequence defined by the starting value [seed] and the function [nextFunction], which is invoked to calculate the next value based on the previous one on each iteration.

\* The sequence produces values until it encounters first `null` value.

\* If [seed] is `null`, an empty sequence is produced.

\* The sequence can be iterated multiple times, each time starting with [seed].

```

@see kotlin.sequences.sequence\n *\n * @sample
samples.collections.Sequences.Building.generateSequenceWithSeed\n
*\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?,
nextFunction: (T) -> T?): Sequence<T> =\n if (seed == null)\n
    EmptySequence\n else\n     GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined
by the function [seedFunction], which is invoked to produce the starting value,\n * and the [nextFunction], which is
invoked to calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces
values until it encounters first `null` value.\n * If [seedFunction] returns `null`, an empty sequence is produced.\n *\n
* The sequence can be iterated multiple times.\n *\n * @see kotlin.sequences.sequence\n *\n * @sample
samples.collections.Sequences.Building.generateSequenceWithLazySeed\n *\npublic fun <T : Any>
generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n
GeneratorSequence(seedFunction, nextFunction)\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt
file.\n *\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\nPreconditionsKt")\n\npackage
kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic
inline fun require(value: Boolean): Unit {\n contract {\n returns() implies value\n }\n require(value) {\n
"Failed requirement.\n" }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling
[lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n
*\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n
contract {\n returns() implies value\n }\n if (!value) {\n val message = lazyMessage()\n throw
IllegalArgumentException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalArgumentException]
if the [value] is null. Otherwise returns the not null value.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T :
Any> requireNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n return
requireNotNull(value) {"Required value was null." }\n}\n\n/**\n * Throws an [IllegalArgumentException] with
the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failRequireNotNullWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline
fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value
!= null)\n }\n\n if (value == null) {\n val message = lazyMessage()\n throw
IllegalArgumentException(message.toString())\n } else {\n return value\n }\n}\n\n/**\n * Throws an
[IllegalStateException] if the [value] is false.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n
*\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean): Unit {\n contract {\n returns()
implies value\n }\n check(value) {"Check failed.\n" }\n}\n\n/**\n * Throws an [IllegalStateException] with the
result of calling [lazyMessage] if the [value] is false.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline fun
check(value: Boolean, lazyMessage: () -> Any): Unit {\n contract {\n returns() implies value\n }\n if
(!value) {\n val message = lazyMessage()\n throw IllegalStateException(message.toString())\n }\n}\n\n/**\n
* Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n *\n
* @sample samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic
inline fun <T : Any> checkNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n
return checkNotNull(value) {"Required value was null." }\n}\n\n/**\n * Throws an
[IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not
null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?, lazyMessage: () -> Any): T
{\n contract {\n returns() implies (value != null)\n }\n\n if (value == null) {\n val message =
lazyMessage()\n throw IllegalStateException(message.toString())\n } else {\n return value\n

```



```

}\n}\n\n/**\n * Throws an [IllegalStateException] with the given [message].\n * \n * @sample
samples.misc.Preconditions.failWithError\n *\n@\kotlin.internal.InlineOnly\npublic inline fun error(message: Any):
Nothing = throw IllegalStateException(message.toString())\n", "*/\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport
kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport
kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an
[IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n *\npublic actual fun <T> Array<out T>.elementAt(index:
Int): T {\n     return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*\npublic actual fun ByteArray.elementAt(index: Int): Byte {\n     return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n *\npublic actual fun ShortArray.elementAt(index: Int): Short
{\n     return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n *\npublic
actual fun IntArray.elementAt(index: Int): Int {\n     return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n * Returns an element at the given
[index]
or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n *\npublic actual fun LongArray.elementAt(index: Int): Long
{\n     return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n *\npublic
actual fun FloatArray.elementAt(index: Int): Float {\n     return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n *\npublic actual fun DoubleArray.elementAt(index: Int):
Double {\n     return
elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n *
Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n *\npublic actual fun
BooleanArray.elementAt(index: Int): Boolean {\n     return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n *\npublic actual fun CharArray.elementAt(index: Int): Char
{\n     return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")} }\n}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n *\npublic actual fun <T> Array<out T>.asList():
List<T> {\n     return ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n}\n\n/**\n
 * Returns a [List] that wraps the original array.\n *\n@\kotlin.internal.InlineOnly\npublic actual inline fun
ByteArray.asList(): List<Byte> {\n     return this.unsafeCast<Array<Byte>>().asList()\n}\n}\n\n/**\n * Returns a [List]
that wraps the original array.\n *\n@\kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList():
List<Short> {\n     return this.unsafeCast<Array<Short>>().asList()\n}\n}\n\n/**\n * Returns a [List] that wraps the

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original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n    return
this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n    return
this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList():
List<Float> {\n    return this.unsafeCast<Array<Float>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the
original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n
return this.unsafeCast<Array<Double>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n    return
this.unsafeCast<Array<Boolean>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n\npublic actual fun CharArray.asList(): List<Char> {\n    return object : AbstractList<Char>(), RandomAccess {\n
        override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n
        override fun contains(element: Char): Boolean = this@asList.contains(element)\n        override fun get(index: Int):
Char {\n            AbstractList.checkElementIndex(index, size)\n
            return this@asList[index]\n        }\n        override fun indexOf(element: Char): Int {\n
            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is Char) return -1\n            return
this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: Char): Int {\n
            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is Char) return -1\n            return
this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply*
equal to one another.\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two
corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any
nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the
[equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not
equal to `0.0`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual
infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n    return
this.contentDeepEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one
another.\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are
also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are nested arrays, they are
also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The
elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point
numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*/\n@SinceKotlin("1.4")\n@library("arrayDeepEquals")\npublic actual infix fun <T> Array<out
T>?.contentDeepEquals(other: Array<out T>?):
Boolean {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is
[List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the
behavior is undefined.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic
actual fun <T> Array<out T>.contentDeepHashCode(): Int {\n    return this.contentDeepHashCode()\n}\n\n/**\n *
Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n
*/\n\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n
*/\n@SinceKotlin("1.4")\n@library("arrayDeepHashCode")\npublic actual fun <T> Array<out
T>?.contentDeepHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains
itself on
any nesting level that reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out
T>.contentDeepToString(): String {\n    return this.contentDeepToString()\n}\n\n/**\n * Returns a string
representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any

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of arrays contains itself on any nesting level that reference  
`\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n *`  
`@sample samples.collections.Arrays.ContentOperations.contentDeepToString\n`  
`*\n @SinceKotlin(\"1.4\")\n @library(\"arrayDeepToString\")\n public actual fun <T> Array<out`  
`T>?.contentDeepToString(): String {\n definedExternally\n }\n\n/**\n * Returns `true` if the two specified arrays`  
`are *structurally* equal to one another,\n * i.e. contain the same number of the`  
`same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]`  
`function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n`  
`*\n @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation`  
`warning.\")\n @SinceKotlin(\"1.1\")\n @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n public actual infix fun <T>`  
`Array<out T>.contentEquals(other: Array<out T>): Boolean {\n return this.contentEquals(other)\n }\n\n/**\n *`  
`Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of`  
`the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]`  
`function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n`  
`*\n @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation`  
`warning.\")\n @SinceKotlin(\"1.1\")\n @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n public`  
`actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {\n return`  
`this.contentEquals(other)\n }\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one`  
`another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are`  
`compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is`  
`equal to itself and `-0.0` is not equal to `0.0`.\n * \n @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation`  
`warning.\")\n @SinceKotlin(\"1.1\")\n @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n public actual infix fun`  
`ShortArray.contentEquals(other: ShortArray): Boolean {\n return this.contentEquals(other)\n }\n\n/**\n *`  
`Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the`  
`same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]`  
`function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n`  
`*\n @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation`  
`warning.\")\n @SinceKotlin(\"1.1\")\n @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n public actual infix fun`  
`IntArray.contentEquals(other: IntArray): Boolean {\n return this.contentEquals(other)\n }\n\n/**\n *`  
`Returns `true``  
`if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same`  
`elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]`  
`function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n`  
`*\n @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation`  
`warning.\")\n @SinceKotlin(\"1.1\")\n @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n public actual infix fun`  
`LongArray.contentEquals(other: LongArray): Boolean {\n return this.contentEquals(other)\n }\n\n/**\n *`  
`* Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number`  
`of the same elements in the same order.\n * \n * The elements are compared for equality with the`  
`[equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not`  
`equal to `0.0`.\n * \n @Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation`  
`warning.\")\n @SinceKotlin(\"1.1\")\n @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n public actual infix fun`  
`FloatArray.contentEquals(other: FloatArray): Boolean {\n return this.contentEquals(other)\n }\n\n/**\n *`  
`Returns`  
``true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the`  
`same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]`  
`function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n`  
`*\n @Deprecated(\"Use`  
`Kotlin compiler 1.4 to avoid deprecation`  
`warning.\")\n @SinceKotlin(\"1.1\")\n @DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n public actual infix fun`  
`DoubleArray.contentEquals(other: DoubleArray): Boolean {\n return this.contentEquals(other)\n }\n\n/**\n *`  
`Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of`

the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

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*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
BooleanArray.contentEquals(other: BooleanArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n *
Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain
the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the
[equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not
equal to `0.0`.\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
CharArray.contentEquals(other: CharArray): Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun <T> Array<out
T>?.contentEquals(other:
Array<out T>?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun ByteArray?.contentEquals(other:
ByteArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual
infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the
same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun IntArray?.contentEquals(other:
IntArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic
actual infix fun LongArray?.contentEquals(other: LongArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns
`true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of
the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]
function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun FloatArray?.contentEquals(other:
FloatArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
* The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
means that `NaN` is equal to itself and `-0.0` is not
equal to `0.0`.\n *\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun
DoubleArray?.contentEquals(other: DoubleArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if
the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same
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elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

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*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are
 *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n
 * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it
 means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n
*\n@SinceKotlin("1.4")\n@library("arrayEquals")\npublic actual infix fun CharArray?.contentEquals(other: CharArray?): Boolean {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array
 as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun <T>
Array<out T>.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based
 on the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
ByteArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
 the contents of this array as if it is [List].\n *\n@Deprecated("Use
 Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
ShortArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
 the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
IntArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
 the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
LongArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
 the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4
 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual fun FloatArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code
 based on the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid
 deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual
fun DoubleArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code
 based on the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid
 deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual
fun BooleanArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code
 based on the contents of this array as if it is [List].\n *\n@Deprecated("Use Kotlin compiler 1.4 to avoid
 deprecation
 warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun
CharArray.contentHashCode(): Int {\n    return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on
 the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual
fun <T> Array<out T>?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on
 the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual
fun ByteArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the
 contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun
ShortArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the
 contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic
actual fun IntArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on
 the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual
fun LongArray?.contentHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the

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contents of this array as if it is [List].\n \*^@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun FloatArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*^@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun DoubleArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*^@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun BooleanArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \*^@SinceKotlin("1.4")\n@library("arrayHashCode")\npublic actual fun CharArray?.contentHashCode(): Int {\n definedExternally\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun <T> Array<out T>.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun ByteArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun ShortArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun IntArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun LongArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun FloatArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun DoubleArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun BooleanArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual fun CharArray.contentToString(): String {\n return

```

this.contentToString()\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun <T> Array<out T>?.contentToString():
String {\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun ByteArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun ShortArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun IntArray?.contentToString(): String {\n
definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun LongArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun FloatArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation
of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun DoubleArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun BooleanArray?.contentToString():
String {\n  definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as
if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun CharArray?.contentToString(): String
{\n  definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array
and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange
so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param
destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic
actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0,
endIndex: Int = size): Array<T> {\n  arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n
return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n
*\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with
the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in
the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to
copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n

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\* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of

this array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n \* \n \* @return the [destination] array. \n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n    arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array. \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n * \n * @param destination the
```

```
array to copy to. \n * @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n * or when that index is out of the [destination] array indices range. \n * \n * @return the [destination] array. \n
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n
```

```
    arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array. \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n * \n * @param destination the array to copy to. \n * @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default. \n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n * or when that index is out of the [destination] array indices range. \n * \n * @return the [destination] array. \n
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n    arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array. \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range. \n * \n * @param destination the array to copy to. \n * @param destinationOffset the position in the [destination] array to copy to, 0 by default. \n * @param startIndex the beginning (inclusive)
```

```
of the subrange to copy, 0 by default. \n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default. \n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n * or when that index is out of the [destination] array indices range. \n * \n * @return the [destination] array. \n
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
```



```

_ARGUMENTS`)
public actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): LongArray {
    arrayCopy(this.unsafeCast<Array<Long>>(),
destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): FloatArray {
    arrayCopy(this.unsafeCast<Array<Float>>(),
destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): DoubleArray {
    arrayCopy(this.unsafeCast<Array<Double>>(),
destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): BooleanArray {
    arrayCopy(this.unsafeCast<Array<Boolean>>(),
destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy,
 */

```

0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array

indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n    arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ByteArray.copyOf(): ByteArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun IntArray.copyOf(): IntArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun LongArray.copyOf(): LongArray {\n    return withType("LongArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun FloatArray.copyOf(): FloatArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic actual fun BooleanArray.copyOf(): BooleanArray {\n    return withType("BooleanArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic actual fun CharArray.copyOf(): CharArray {\n    return withType("CharArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample\n samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun ByteArray.copyOf(newSize: Int): ByteArray {\n    require(newSize >= 0) { "Invalid new array size: $newSize." }\n    return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
```

```

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *
\npublic actual fun
ShortArray.copyOf(newSize: Int): ShortArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n  return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled
with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun IntArray.copyOf(newSize: Int): IntArray {\n  require(newSize >= 0) { \"Invalid new array
size: $newSize.\" }\n  return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of
the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun LongArray.copyOf(newSize: Int): LongArray {\n  require(newSize >= 0) { \"Invalid new
array size: $newSize.\" }\n  return withType(\"LongArray\", arrayCopyResize(this,
newSize, 0L))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given
[newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize]
is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater
than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *
\npublic actual fun
FloatArray.copyOf(newSize: Int): FloatArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n  return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated
to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *
\npublic actual fun
DoubleArray.copyOf(newSize: Int): DoubleArray {\n  require(newSize >= 0) { \"Invalid new array size:
$newSize.\" }\n  return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of
the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false`
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with `false` values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *
\npublic actual fun
BooleanArray.copyOf(newSize:
Int): BooleanArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n  return
withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns new array which is a
copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with
null char (`\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy
array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements
in the copy array are filled with null char (`\u0000`) values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *
\npublic actual fun
CharArray.copyOf(newSize: Int): CharArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n  return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is
a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the

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[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n
*\n*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int):
Array<T?> {\n    require(newSize >= 0) { "Invalid new array size: $newSize." }\n    return arrayCopyResize(this,
newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive)
to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual fun <T> Array<out
T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a
copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to
copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentExcep\n
tion if [fromIndex] is greater than [toIndex].\n */\npublic actual fun
ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic
actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun
IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n    AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a
copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to
copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentExcep\n
tion if [fromIndex] is greater than [toIndex].\n */\npublic actual fun
LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("LongArray",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which
is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to
copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentExcep\n
tion if [fromIndex] is greater than [toIndex].\n */\npublic actual fun
FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentExcep\n
tion if

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[fromIndex] is greater than [toIndex].\n *^\\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex:
Int): DoubleArray {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return
this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range
of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the
end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n *^\\npublic actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n
  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return withType("BooleanArray",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of
the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the
end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n *^\\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n
  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return withType("CharArray",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException
if [fromIndex] is greater than [toIndex].\n
*^\\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*^\\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size):
Unit {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*^\\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex
the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*^\\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n

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AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.fill(element:
Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n  this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@param @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or
its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill,
0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@param @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator
fun <T> Array<out T>.plus(element: T): Array<T> {\n  return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original
array and then the given [element].\n * \n * @param @Suppress("NOTHING_TO_INLINE")\npublic actual inline operator
fun ByteArray.plus(element:

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Byte): ByteArray { \n return plus(byteArrayOf(element))\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun ShortArray.plus(element: Short): ShortArray { \n return plus(shortArrayOf(element))\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun IntArray.plus(element: Int): IntArray { \n return plus(intArrayOf(element))\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long): LongArray { \n return plus(longArrayOf(element))\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun FloatArray.plus(element: Float): FloatArray { \n return plus(floatArrayOf(element))\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun DoubleArray.plus(element: Double): DoubleArray { \n return plus(doubleArrayOf(element))\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray { \n return plus(booleanArrayOf(element))\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun CharArray.plus(element: Char): CharArray { \n return plus(charArrayOf(element))\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\n@Suppress("ACTUAL\_WITHOUT\_EXPECT")\npublic actual operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> { \n return arrayPlusCollection(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray { \n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray { \n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray { \n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray { \n return arrayPlusCollection(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray { \n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray { \n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray { \n return arrayPlusCollection(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n \*/\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray { \n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\n@Suppress("ACTUAL\_WITHOUT\_EXPECT", "NOTHING\_TO\_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>):

```

Array<T> {\n  return this.asDynamic().concat(elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements]
array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(elements:
ByteArray): ByteArray {\n  return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] array.\n
*/\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(elements:
ShortArray): ShortArray {\n  return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.\n
*/\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(elements: IntArray):
IntArray {\n  return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of
the original array
and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual
inline operator fun LongArray.plus(elements: LongArray): LongArray {\n  return primitiveArrayConcat(this,
elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the
given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun
FloatArray.plus(elements: FloatArray): FloatArray {\n  return primitiveArrayConcat(this, elements)\n}\n\n/**\n
Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n
*/\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(elements:
DoubleArray): DoubleArray {\n  return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.\n
*/\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {\n  return
primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array
and then all elements of the given [elements] array.\n */\n@Suppress("NOTHING_TO_INLINE")\npublic actual
inline operator fun CharArray.plus(elements: CharArray): CharArray {\n  return primitiveArrayConcat(this,
elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n */\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual
inline fun <T> Array<out T>.plusElement(element: T): Array<T> {\n  return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n */\n * @sample
samples.collections.Arrays.Sorting.sortArray\n */\n@library("primitiveArraySort")\npublic actual fun
IntArray.sort(): Unit {\n  definedExternally\n}\n\n/**\n * Sorts the array in-place.\n
*/\n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic actual fun LongArray.sort(): Unit {\n
@Suppress("DEPRECATION")\n  if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts
the array in-place.\n */\n * @sample samples.collections.Arrays.Sorting.sortArray\n
*/\n@library("primitiveArraySort")\npublic actual fun ByteArray.sort(): Unit {\n  definedExternally\n}\n\n/**\n
* Sorts the array in-place.\n */\n * @sample samples.collections.Arrays.Sorting.sortArray\n
*/\n@library("primitiveArraySort")\npublic actual fun ShortArray.sort(): Unit {\n  definedExternally\n}\n\n/**\n
* Sorts the array in-place.\n */\n * @sample samples.collections.Arrays.Sorting.sortArray\n
*/\n@library("primitiveArraySort")\npublic actual fun DoubleArray.sort(): Unit {\n
definedExternally\n}\n\n/**\n * Sorts the array in-place.\n */\n * @sample
samples.collections.Arrays.Sorting.sortArray\n */\n@library("primitiveArraySort")\npublic actual fun
FloatArray.sort():
Unit {\n  definedExternally\n}\n\n/**\n * Sorts the array in-place.\n */\n * @sample
samples.collections.Arrays.Sorting.sortArray\n */\n@library("primitiveArraySort")\npublic actual fun
CharArray.sort(): Unit {\n  definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order
of its elements.\n */\n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic actual fun
<T : Comparable<T>> Array<out T>.sort(): Unit {\n  if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-

```



place according to the order specified by the given [comparison] function.

`Array.sortWith` The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

@Deprecated("Use sortWith instead",
ReplaceWith("this.sortWith(Comparator(comparison))"))
@DeprecatedSinceKotlin(warningSince = "1.6")
public fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {
    if (size > 1)
        sortArrayWith(this, comparison)
}

```

`Array.sortRangeOfArray` Sorts a range in the array in-place. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable`

```

@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex,
        toIndex, size)
    sortArrayWith(this, fromIndex, toIndex, naturalOrder())
}

```

Sorts a range in the array in-place.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArray`

```

@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray =
        this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()
    subarray.sort()
}

```

Sorts a range in the array in-place.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArray`

```

@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray =
        this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()
    subarray.sort()
}

```

Sorts a range in the array in-place.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArray`

```

@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val subarray =
        this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()
    subarray.sort()
}

```

Sorts a range in the array in-place.

`@param fromIndex` the start of the range (inclusive) to sort, 0 by default.

`@param toIndex` the end of the range (exclusive) to sort, size of this array by default.

`@throws IndexOutOfBoundsException` if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

`@throws IllegalArgumentException` if [fromIndex] is greater than [toIndex].

`@sample samples.collections.Arrays.Sorting.sortRangeOfArray`

```

@SinceKotlin("1.4")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {

```

```

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n
subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts the
array
in-place according to the order specified by the given [comparison] function.\n * \n *\n@Deprecated("Use other
sorting functions from the Standard Library")\n@DeprecatedSinceKotlin(warningSince =
"1.6")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) ->
Int): Unit {\n    asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified
by the given [comparison] function.\n * \n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n * \n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n * \n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n
asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n * \n *\n@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n

```

```

asDynamic().sort(comparison)\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison]
function.\n *\n @Deprecated("Use other sorting functions from the Standard
Library")\n @DeprecatedSinceKotlin(warningSince = "1.6")\n @kotlin.internal.InlineOnly\n public inline fun
DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n
asDynamic().sort(comparison)\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n *\n @Deprecated("Use other sorting functions from the Standard
Library")\n @DeprecatedSinceKotlin(warningSince = "1.6")\n @kotlin.internal.InlineOnly\n public inline fun
CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n
asDynamic().sort(comparison)\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparator].\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n *\n public actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n if
(size
> 1) sortArrayWith(this, comparator)\n\n\n/**\n * Sorts a range in the array in-place with the given
[comparator].\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n *\n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex
the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n @SinceKotlin("1.4")\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public
actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size):
Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this, fromIndex, toIndex,
comparator)\n\n\n/**\n * Returns a *typed* object array containing
all of the elements of this primitive array.\n *\n public actual fun ByteArray.toTypedArray(): Array<Byte> {\n
return js("[]").slice.call(this)\n\n\n/**\n * Returns a *typed* object array containing all of the elements of this
primitive array.\n *\n public actual fun ShortArray.toTypedArray(): Array<Short> {\n return
js("[]").slice.call(this)\n\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *\n public actual fun IntArray.toTypedArray(): Array<Int> {\n return js("[]").slice.call(this)\n\n\n/**
* Returns a *typed* object array containing all of the elements of this primitive array.\n *\n public actual fun
LongArray.toTypedArray(): Array<Long> {\n return js("[]").slice.call(this)\n\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n *\n public actual fun
FloatArray.toTypedArray(): Array<Float> {\n return js("[]").slice.call(this)\n\n\n/**\n * Returns a
*typed* object array containing all of the elements of this primitive array.\n *\n public actual fun
DoubleArray.toTypedArray(): Array<Double> {\n return js("[]").slice.call(this)\n\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n *\n public actual fun
BooleanArray.toTypedArray(): Array<Boolean> {\n return js("[]").slice.call(this)\n\n\n/**\n * Returns a
*typed* object array containing all of the elements of this primitive array.\n *\n public actual fun
CharArray.toTypedArray(): Array<Char> {\n return Array(size) { index -> this[index] }\n\n\n"}\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n @file:kotlin.jvm.JvmName("ComparisonsKt")\n @file:kotlin.jvm.JvmMultifileClass\n package
kotlin.comparisons\n\n/**\n * Compares two values using the specified functions
[selectors] to calculate the result of the comparison.\n * The functions are called sequentially, receive the given
values [a] and [b] and return [Comparable]\n * objects. As soon as the [Comparable] instances returned by a
function for [a] and [b] values do not\n * compare as equal, the result of that comparison is returned.\n *\n *
@param samples.comparisons.Comparisons.compareValuesByWithSelectors\n *\n public fun <T>
compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n require(selectors.size > 0)\n
return compareValuesByImpl(a, b, selectors)\n\n\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors:

```

```

Array<out (T) -> Comparable<*>?>): Int {\n  for (fn in selectors) {\n    val v1 = fn(a)\n    val v2 = fn(b)\n    val diff = compareValues(v1, v2)\n    if (diff != 0) return diff\n  }\n  return 0}\n\n/**\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return [Comparable] objects.\n * The result of comparison of these [Comparable] instances is returned.\n *\n * @sample
samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {\n  return compareValues(selector(a), selector(b))\n}\n\n/**\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return objects of type K which are then being\n * compared with the given [comparator].\n *\n * @sample
samples.comparisons.Comparisons.compareValuesByWithComparator\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {\n  return comparator.compare(selector(a), selector(b))\n}\n\n//// Not so useful without type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 } thenByDescending { it.prop2 })\n\n/**\n * Compares two values using the specified [comparator].\n *\n * @sample\n */\n@Suppress("NOTHING_TO_INLINE")\npublic inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)\n\n/**\n * Compares two nullable [Comparable] values. Null is considered less than any value.\n *\n * @sample
samples.comparisons.Comparisons.compareValues\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {\n  if (a === b) return 0\n  if (a == null) return -1\n  if (b == null) return 1\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn (a as Comparable<Any>).compareTo(b)\n}\n\n/**\n * Creates a comparator using the sequence of functions to calculate a result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return [Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not\n * compare as equal, the result of that comparison is returned from the [Comparator].\n *\n * @sample
samples.comparisons.Comparisons.compareByWithSelectors\n *\n@kotlin.internal.InlineOnly\npublic fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {\n  require(selectors.size > 0)\n  return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }\n}\n\n/**\n * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.compareByWithSingleSelector\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n  Comparator { a, b -> compareValuesBy(a, b, selector) }\n\n/**\n * Creates a comparator using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * @sample
samples.comparisons.Comparisons.compareByWithComparator\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n  Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n/**\n * Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n  Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**\n * Creates a descending comparator using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * Note that an order of [comparator] is reversed by this wrapper.\n *\n * @sample
samples.comparisons.Comparisons.compareByDescendingWithComparator\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n  Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenBy\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>

```

```

Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)\n    }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with the given\n [comparator].\n *\n @sample samples.comparisons.Comparisons.thenByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector)\n    }\n\n/**\n * Creates a descending comparator using the primary comparator and\n * the function to transform value to a [Comparable] instance for comparison.\n *\n @sample samples.comparisons.Comparisons.thenByDescending\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    }\n\n/**\n * Creates a descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *\n @sample samples.comparisons.Comparisons.thenByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n    }\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n *\n @sample samples.comparisons.Comparisons.thenComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n    Comparator {\n        a, b ->\n            val previousCompare = this@thenComparator.compare(a, b)\n            if (previousCompare != 0) previousCompare else comparison(a, b)\n    }\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the former considered values equal.\n *\n @sample samples.comparisons.Comparisons.then\n */\npublic infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@then.compare(a, b)\n        if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n    }\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the former considered values equal.\n *\n @sample samples.comparisons.Comparisons.thenDescending\n */\npublic infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n    Comparator<T> { a, b ->\n        val previousCompare = this@thenDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else comparator.compare(b, a)\n    }\n\n// Not so useful without type inference for receiver of expression\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value less than any other value.\n *\n @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a === b -> 0\n            a == null -> -1\n            b == null -> 1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other value.\n *\n @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =\n    nullsFirst(naturalOrder())\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value greater than any other value.\n *\n @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any>

```

```

nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a\n            === b -> 0\n            a == null -> 1\n            b == null -> -1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/*\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any\n * other value.\n */\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n\n*\n\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> =\n    nullsLast(naturalOrder())\n\n/*\n * Returns a comparator that compares [Comparable] objects in natural order.\n */\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n\n*\n\npublic fun <T : Comparable<T>> naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")\n    (NaturalOrderComparator as Comparator<T>)\n\n/*\n * Returns a comparator that compares [Comparable] objects\n * in reversed natural order.\n */\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n\n*\n\npublic fun <T : Comparable<T>> reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")\n    (ReverseOrderComparator as Comparator<T>)\n\n/*\n * Returns a comparator that imposes the reverse ordering\n * of this comparator.\n */\n * @sample samples.comparisons.Comparisons.reversed\n\n*\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic fun <T> Comparator<T>.reversed():\n    Comparator<T> = when (this) {\n        is ReversedComparator -> this.comparator\n        NaturalOrderComparator ->\n        @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as Comparator<T>)\n        ReverseOrderComparator -> @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as\n            Comparator<T>)\n        else -> ReversedComparator(this)\n    }\n\nprivate\n    class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {\n        override fun\n        compare(a: T, b: T): Int = comparator.compare(b, a)\n        @Suppress("VIRTUAL_MEMBER_HIDDEN")\n        fun\n        reversed(): Comparator<T> = comparator\n    }\n\nprivate object NaturalOrderComparator :  
    Comparator<Comparable<Any>> {\n        override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int =\n            a.compareTo(b)\n        @Suppress("VIRTUAL_MEMBER_HIDDEN")\n        fun reversed():  
    Comparator<Comparable<Any>> = ReverseOrderComparator\n    }\n\nprivate object ReverseOrderComparator :  
    Comparator<Comparable<Any>> {\n        override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int =\n            b.compareTo(a)\n        @Suppress("VIRTUAL_MEMBER_HIDDEN")\n        fun reversed():  
    Comparator<Comparable<Any>> = NaturalOrderComparator\n    }\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o.\n * and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license\n * that can\n * be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StandardKt")\npackage kotlin\n\nimport\n    kotlin.contracts.*\n\n/*\n * An exception is thrown to indicate that a method body remains to be implemented.\n */\n\npublic class NotImplementedError(message: String = "An operation is not implemented.") :  
    Error(message)\n\n/*\n * Always throws [NotImplementedError] stating that operation is not implemented.\n */\n\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/*\n * Always throws [NotImplementedError] stating that operation is not implemented.\n */\n * @param reason a string\n * explaining why the implementation is missing.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason:  
String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")\n\n/*\n * Calls\n * the specified function [block] and returns its result.\n */\n * @param\n * For detailed usage information\n * see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return block()\n}\n\n/*\n * Calls the specified\n * function [block] with `this` value as its receiver and returns its result.\n */\n * @param\n * For detailed usage information see the\n * documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return block()\n}\n\n/*\n * Calls the specified\n * function [block] with the given [receiver] as its receiver and returns its result.\n */\n * @param\n * For detailed usage information\n * see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n */

```

```

*^@kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return receiver.block()\n}\n\n/*\n * Calls the specified function [block] with `this` value as its receiver and returns `this` value.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\n */\n*^@kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  block()\n  return this\n}\n\n/*\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n */\n*^@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.also(block: (T) -> Unit): T {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  block(this)\n  return this\n}\n\n/*\n * Calls the specified function [block] with `this` value as its argument and returns its result.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\n */\n*^@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.let(block: (T) -> R): R {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return block(this)\n}\n\n/*\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n */\n*^@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {\n  contract {\n    callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n  }\n  return if (predicate(this)) this else null\n}\n\n/*\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n */\n*^@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\n  contract {\n    callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n  }\n  return if (!predicate(this)) this else null\n}\n\n/*\n * Executes the given function [action] specified number of [times].\n * A zero-based index of current iteration is passed as a parameter to [action].\n * @sample samples.misc.ControlFlow.repeat\n */\n*^@kotlin.internal.InlineOnly\npublic inline fun repeat(times: Int, action: (Int) -> Unit) {\n  contract {\n    callsInPlace(action)\n  }\n  for (index in 0 until times) {\n    action(index)\n  }\n}\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.comparisons\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.js.*\n\n/*\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n */\n*^@kotlin.internal.InlineOnly\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n  return if (a >= b) a else b\n}\n\n/*\n * Returns the greater of two values.\n */\n*^@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n  return maxOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/*\n * Returns the greater of two values.\n */\n*^@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b: Short): Short {\n  return maxOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/*\n * Returns the greater of two values.\n */\n*^@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n  return JsMath.max(a, b)\n}\n\n/*\n * Returns the greater of two values.\n */\n*^@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long): Long {\n  return if (a >= b) a else b\n}\n\n/*\n * Returns the greater of two values.\n * If either value is `NaN`, returns `NaN`.\n */\n*^@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Float, b: Float): Float {\n  return JsMath.max(a, b)\n}\n\n/*\n * Returns the greater of two values.\n * If either value is `NaN`, returns `NaN`.\n */\n*^@kotlin.internal.InlineOnly\npublic actual

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inline

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fun maxOf(a: Double, b: Double): Double {\n    return JsMath.max(a, b)\n}\n\n * Returns the greater of three values.\n * If there are multiple equal maximal values, returns the first of them.\n\n *\/\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n    return maxOf(a, maxOf(b, c))\n}\n\n * Returns the greater of three values.\n\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n    return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n * Returns the greater of three values.\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b: Short, c: Short): Short {\n    return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n * Returns the greater of three values.\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int, c: Int): Int {\n    return JsMath.max(a, b, c)\n}\n\n * Returns the greater of three values.\n\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long, c: Long): Long {\n    return maxOf(a, maxOf(b, c))\n}\n\n * Returns the greater of three values.\n * If any value is `NaN`, returns `NaN`.\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Float, b: Float, c: Float): Float {\n    return JsMath.max(a, b, c)\n}\n\n * Returns the greater of three values.\n * If any value is `NaN`, returns `NaN`.\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n    return JsMath.max(a, b, c)\n}\n\n * Returns the greater of the given values.\n * If there are multiple equal maximal values, returns the first of them.\n\n *\/\n@SinceKotlin("1.4")\npublic actual fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n * Returns the greater of the given values.\n *\/\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Byte, vararg other: Byte): Byte {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n * Returns the greater of the given values.\n *\/\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Short, vararg other: Short): Short {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n * Returns the greater of the given values.\n *\/\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Int, vararg other: Int): Int {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n * Returns the greater of the given values.\n *\/\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Long, vararg other: Long): Long {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n * Returns the greater of the given values.\n * If any value is `NaN`, returns `NaN`.\n *\/\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Float, vararg other: Float): Float {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n * Returns the greater of the given values.\n * If any value is `NaN`, returns `NaN`.\n\n *\/\n@SinceKotlin("1.4")\npublic actual fun maxOf(a: Double, vararg other: Double): Double {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n * Returns the smaller of two values.\n * If values are equal, returns the first one.\n *\/\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T): T {\n    return if (a <= b) a else b\n}\n\n * Returns the smaller of two values.\n\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte): Byte {\n    return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n * Returns the smaller of two values.\n\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b: Short): Short {\n    return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n * Returns the smaller of two values.\n\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Int, b: Int): Int {\n    return JsMath.min(a, b)\n}\n\n * Returns the smaller of two values.\n\n *\/\n@SinceKotlin("1.1")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun minOf(a: Long, b: Long): Long {\n    return if (a <= b) a else b\n}\n\n * Returns the smaller of two values.\n * If either value is `NaN`, returns `NaN`.\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Float, b: Float): Float {\n    return JsMath.min(a, b)\n}\n\n * Returns the smaller of two values.\n * If either value is `NaN`, returns `NaN`.\n\n *\/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun
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minOf(a: Double, b: Double): Double {\n    return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of three
values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n
*\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n    return minOf(a,
minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte):
Byte {\n    return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of
three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b:
Short, c: Short): Short {\n    return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n *
Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline
fun minOf(a: Int, b: Int, c: Int): Int
{\n    return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c: Long):
Long {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is
`NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a:
Float, b: Float, c: Float): Float {\n    return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n
*\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual
inline fun minOf(a: Double, b: Double, c: Double): Double {\n    return JsMath.min(a, b, c)\n}\n\n/**\n * Returns
the smaller of the given values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n
*\n@SinceKotlin("1.4")\npublic actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T
{\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the
given values.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Byte, vararg other: Byte): Byte {\n    var min
= a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Short, vararg other: Short): Short {\n    var min = a\n    for (e
in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Int, vararg other: Int): Int {\n    var min = a\n    for (e in
other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given
values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a:
Float, vararg other: Float): Float {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return
min\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Double, vararg other: Double): Double {\n    var min = a\n
for (e in other) min = minOf(min, e)\n    return min\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n@n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npub
lic value class ULong @PublishedApi internal constructor(@PublishedApi internal
val data: Long) : Comparable<ULong> {\n    companion object {\n        /**\n         * A constant holding the
minimum value an instance of ULong can have.\n         *\n        public const val MIN_VALUE: ULong =
ULong(0)\n\n        /**\n         * A constant holding the maximum value an instance of ULong can have.\n        
*\n        public const val MAX_VALUE: ULong = ULong(-1)\n\n        /**\n         * The number of bytes used to represent
an instance of ULong in a binary form.\n         *\n        public const val SIZE_BYTES: Int = 8\n\n        /**\n
         * The number of bits used to represent an instance of ULong in a binary form.\n         *\n        public const val
SIZE_BITS: Int = 64\n    }\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns
zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive
number if it's greater than other.\n     *\n    @kotlin.internal.InlineOnly\n

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    public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\n\n /**\n *
Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UShort): Int =
this.compareTo(other.toULong())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UInt): Int = this.compareTo(other.toULong())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal
to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than
other.\n */\n @kotlin.internal.InlineOnly\n @Suppress("OVERRIDE_BY_INLINE")\n public override
inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n\n /** Adds the other
value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): ULong =
this.plus(other.toULong())\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n\n /** Adds the other value to this
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): ULong =
this.plus(other.toULong())\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\n\n
/** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: UByte): ULong = this.minus(other.toULong())\n\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): ULong =
this.minus(other.toULong())\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\n\n /** Subtracts the other
value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong
= ULong(this.data.minus(other.data))\n\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): ULong =
this.times(other.toULong())\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline
operator fun times(other: UShort): ULong = this.times(other.toULong())\n\n /** Multiplies this value by the other
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): ULong =
this.times(other.toULong())\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\n\n /** Divides this
value by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\n\n /** Divides this value by the
other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: UShort): ULong = this.div(other.toULong())\n\n /** Divides this value by the other
value, truncating the result to an integer that is closer to zero.
*/\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): ULong =
this.div(other.toULong())\n\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
ulongDivide(this, other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n\n /**\n * Calculates the remainder
of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): ULong =
this.rem(other.toULong())\n\n /**\n * Calculates the remainder of truncating division of this value
by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\n\n /**\n * Calculates the

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remainder of truncating division of this value by the other value.\n * \n * The result is always less than the
divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
ulongRemainder(this, other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): ULong =
this.floorDiv(other.toULong())\n\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): ULong =
this.floorDiv(other.toULong())\n\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UInt): ULong =
this.floorDiv(other.toULong())\n\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: ULong): ULong =
div(other)\n\n /**\n * Calculates the remainder of flooring division of
this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned
types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.mod(other.toULong()).toUByte()\n\n /**\n * Calculates the remainder of flooring division of this value by the
other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders
of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline
fun mod(other: UShort): UShort = this.mod(other.toULong()).toUShort()\n\n /**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is always less than the divisor.\n * \n
* For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.mod(other.toULong()).toUInt()\n\n /**\n * Calculates the remainder of flooring division of this value by the
other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders
of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline
fun mod(other: ULong): ULong = rem(other)\n\n\n /**\n * Returns this value incremented by one.\n */\n @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc():
ULong = ULong(data.inc())\n\n\n /**\n * Returns this value decremented by one.\n */\n @sample
samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): ULong =
ULong(data.dec())\n\n\n /**\n * Creates a range from this value to the specified [other] value.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: ULong): ULongRange =
ULongRange(this, other)\n\n\n /**\n * Shifts this value left by the [bitCount] number of bits.\n * \n * Note
that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n * \n * The shift distance actually
used is therefore always in the range `0..63`.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun
shl(bitCount: Int): ULong = ULong(data shl bitCount)\n\n\n /**\n * Shifts this value right by the [bitCount]
number of bits, filling the leftmost bits with zeros.\n * \n * Note that only the six lowest-order bits of the
[bitCount] are used as the shift distance.\n * \n * The shift distance actually used is therefore always in the range
`0..63`.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): ULong = ULong(data
ushr bitCount)\n\n\n /**\n * Performs a bitwise AND operation between
the two values.\n */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: ULong): ULong =
ULong(this.data and other.data)\n\n\n /**\n * Performs a bitwise OR operation between the two values.\n */\n
@kotlin.internal.InlineOnly\n public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\n\n
/**\n * Performs a bitwise XOR operation between the two values.\n */\n @kotlin.internal.InlineOnly\n public inline
infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)\n\n\n /**\n * Inverts the bits in this value.\n */\n

```

```

@kotlin.internal.InlineOnly\n public inline fun inv(): ULong = ULong(data.inv())\n /**\n * Converts this
[ULong] value to [Byte].\n *\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting
`Byte` value represents\n * the same numerical value as this `ULong`.\n *\n * The resulting `Byte` value is
represented by the least significant 8 bits of this `ULong` value.\n * Note
that the resulting `Byte` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data.toByte()\n /**\n * Converts this [ULong] value to [Short].\n *\n * If this value is less
than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same numerical value as
this `ULong`.\n *\n * The resulting `Short` value is represented by the least significant 16 bits of this `ULong`
value.\n * Note that the resulting `Short` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public
inline fun toShort(): Short = data.toShort()\n /**\n * Converts this [ULong] value to [Int].\n *\n * If this
value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n * the same numerical
value as this `ULong`.\n *\n * The resulting `Int` value is represented by the least significant 32 bits of this
`ULong` value.\n * Note that the resulting
`Int` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt()\n
/**\n * Converts this [ULong] value to [Long].\n *\n * If this value is less than or equals to
[Long.MAX_VALUE], the resulting `Long` value represents\n * the same numerical value as this `ULong`.
Otherwise the result is negative.\n *\n * The resulting `Long` value has the same binary representation as this
`ULong` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data\n /**\n *
Converts this [ULong] value to [UByte].\n *\n * If this value is less than or equals to [UByte.MAX_VALUE],
the resulting `UByte` value represents\n * the same numerical value as this `ULong`.\n *\n * The resulting
`UByte` value is represented by the least significant 8 bits of this `ULong` value.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n
/**\n * Converts this [ULong] value to [UShort].\n *\n * If this value is less than or equals to
[UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `ULong`.\n
*\n * The resulting `UShort` value is represented by the least significant 16 bits of this `ULong` value.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = data.toUShort()\n /**\n * Converts this
[ULong] value to [UInt].\n *\n * If this value is less than or equals to [UInt.MAX_VALUE], the resulting
`UInt` value represents\n * the same numerical value as this `ULong`.\n *\n * The resulting `UInt` value is
represented by the least significant 32 bits of this `ULong` value.\n */\n @kotlin.internal.InlineOnly\n public
inline fun toUInt(): UInt = data.toUInt()\n /** Returns this value. */\n @kotlin.internal.InlineOnly\n public
inline fun toULong(): ULong = this\n /**\n
* Converts this [ULong] value to [Float].\n *\n * The resulting value is the closest `Float` to this `ULong`
value.\n * In case when this `ULong` value is exactly between two `Float`s,\n * the one with zero at least
significant bit of mantissa is selected.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =
this.toDouble().toFloat()\n /**\n * Converts this [ULong] value to [Double].\n *\n * The resulting value is
the closest `Double` to this `ULong` value.\n * In case when this `ULong` value is exactly between two
`Double`s,\n * the one with zero at least significant bit of mantissa is selected.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toDouble(): Double = ulongToDouble(data)\n\n public override
fun toString(): String = ulongToString(data)\n\n /**\n * Converts this [Byte] value to [ULong].\n *\n * If this
value is positive, the resulting `ULong` value represents the same numerical value
as this `Byte`.\n *\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this
`Byte` value,\n * whereas the most significant 56 bits are filled with the sign bit of this value.\n */\n
@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Byte.toULong(): ULong = ULong(this.toLong())\n /**\n * Converts this [Short] value to
[ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this
`Short`.\n *\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short`
value,\n * whereas the most significant 48 bits are filled with the sign bit of this value.\n */\n
@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n

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public inline fun Short.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Int] value to [ULong].\n *\n * If this value
is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\n *\n * The least
significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\n *\n * whereas the most
significant 32 bits are filled with the sign bit of this value.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Int.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Long] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\n *\n * The resulting `ULong` value has the same binary representation as this `Long` value.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Long.toULong(): ULong = ULong(this)\n/**\n * Converts this [Float] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n
* Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than
`ULong.MAX_VALUE`.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n/**\n * Converts this [Double]
value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n *\n * Returns zero if this
`Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Double.toULong(): ULong = doubleToULong(this)\n", "/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the list.\n *\n *
Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n    return
get(0)\n}\n\n/**\n * Returns 2nd *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the
size of this list is less than 2.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
List<T>.component2(): T {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element* from the list.\n *\n * Throws an
[IndexOutOfBoundsException] if the size of this list is less than 3.\n */\n@kotlin.internal.InlineOnly\npublic inline
operator fun <T> List<T>.component3():
T {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the list.\n *\n * Throws an
[IndexOutOfBoundsException] if the size of this list is less than 4.\n */\n@kotlin.internal.InlineOnly\npublic inline
operator fun <T> List<T>.component4(): T {\n    return get(3)\n}\n\n/**\n * Returns 5th *element* from the list.\n
*\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 5.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component5(): T {\n    return
get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection.\n */\npublic operator fun
<@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n    if (this is Collection)\n        return contains(element)\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or
throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n
*/\n\npublic fun <T> Iterable<T>.elementAt(index: Int): T {\n    if (this is List)\n        return get(index)\n    return
elementAtOrElse(index) { throw IndexOutOfBoundsException("Collection doesn't contain element at index
$index.") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if
the [index] is out of bounds of this list.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n    return

```

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get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function
if the [index] is out of bounds of this collection.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\npublic fun <T>
Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n  if (this is List)\n    return
this.getOrElse(index, defaultValue)\n  if (index < 0)\n    return defaultValue(index)\n  val iterator = iterator()\n  var count = 0\n  while (iterator.hasNext()) {\n
val element = iterator.next()\n    if (index == count++)\n      return element\n  }\n  return
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this list.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this collection.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\npublic fun <T>
Iterable<T>.elementAtOrNull(index: Int): T? {\n  if (this is List)\n    return this.getOrElse(index)\n  if (index < 0)\n    return null\n  val iterator = iterator()\n  var count = 0\n  while (iterator.hasNext()) {\n
val element = iterator.next()\n    if (index == count++)\n      return element\n  }\n  return null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<T> List<T>.elementAtOrNull(index: Int): T? {\n  return this.getOrElse(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.find(predicate: (T) -> Boolean): T? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
List<T>.findLast(predicate: (T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns first
element.\n * @throws [NoSuchElementException] if the collection is empty.\n *\npublic fun <T>
Iterable<T>.first(): T {\n  when (this) {\n    is List -> return this.first()\n    else -> {\n      val iterator =
iterator()\n      if (!iterator.hasNext())\n        throw NoSuchElementException("Collection is empty.")\n      return iterator.next()\n    }\n  }\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the list is empty.\n *\npublic fun <T> List<T>.first(): T {\n  if (isEmpty())\n    throw NoSuchElementException("List is empty.")\n  return this[0]\n}\n\n/**\n * Returns the first element
matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\npublic
inline fun <T> Iterable<T>.first(predicate: (T) -> Boolean): T {\n  for (element in this) if (predicate(element))
return element\n  throw NoSuchElementException("Collection contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to
elements of this collection in iteration order,\n * or throws [NoSuchElementException] if no non-null value was
produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Iterable<T>.firstNotNullOf(transform: (T) ->
R?): R {\n  return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the
collection was transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by
[transform] function being applied to elements of this collection in iteration order,\n * or `null` if no non-null value
was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>

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Iterable<T>.firstNotNullOrNull(transform: (T) -> R?): R? {\n  for (element in this) {\n    val result =
transform(element)\n    if (result != null) {\n      return result\n    }\n  }\n  return null\n}\n\nReturns the first element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n  when (this) {\n    is List -> {\n      if (isEmpty())\n        return null\n      else\n        return this[0]\n    }\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        return null\n      return iterator.next()\n    }\n  }\n}\n\nReturns the first element, or `null` if the list is
empty.\n */\npublic fun <T> List<T>.firstOrNull(): T? {\n  return if (isEmpty()) null else this[0]\n}\n\nReturns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
<T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n  for (element in this) if (predicate(element)) return
element\n  return null\n}\n\nReturns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> List<T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\nReturns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n */\n@sample
samples.collections.Collections.Elements.getOrElse\n */\npublic fun <T> List<T>.getOrElse(index: Int): T? {\n  return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\nReturns first index of [element], or -
1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T>
Iterable<T>.indexOf(element: T): Int {\n  if (this is List) return this.indexOf(element)\n  var index = 0\n  for
(item in this) {\n    checkIndexOverflow(index)\n    if (element == item)\n      return index\n    index++\n  }\n  return -1\n}\n\nReturns first index of [element], or -1 if the list does not contain element.\n */\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element:
T): Int {\n  return indexOf(element)\n}\n\nReturns index of the first element matching the given
[predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T>
Iterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n  var index = 0\n  for (item in this) {\n   
checkIndexOverflow(index)\n    if (predicate(item))\n      return index\n    index++\n  }\n  return -
1\n}\n\nReturns index of the first element matching the given [predicate], or -1 if the list does not contain
such element.\n */\npublic inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n  var index = 0\n
for (item in this) {\n    if (predicate(item))\n      return index\n    index++\n  }\n  return -1\n}\n\nReturns index of the last element matching the given [predicate], or -1 if the collection does not contain such
element.\n */\npublic inline fun <T> Iterable<T>.indexOfLast(predicate:
(T) -> Boolean): Int {\n  var lastIndex = -1\n  var index = 0\n  for (item in this) {\n   
checkIndexOverflow(index)\n    if (predicate(item))\n      lastIndex = index\n    index++\n  }\n  return
lastIndex\n}\n\nReturns index of the last element matching the given [predicate], or -1 if the list does not
contain such element.\n */\npublic inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n  val
iterator = this.listIterator(size)\n  while (iterator.hasPrevious()) {\n    if (predicate(iterator.previous())) {\n
return iterator.nextIndex()\n    }\n  }\n  return -1\n}\n\nReturns the last element.\n */\n@throws
NoSuchElementException if the collection is empty.\n */\n@sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T {\n  when (this) {\n    is
List -> return this.last()\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        throw NoSuchElementException("Collection is empty.")\n      var last = iterator.next()\n      while
(iterator.hasNext())\n        last = iterator.next()\n      return last\n    }\n  }\n}\n\nReturns the last
element.\n */\n@throws NoSuchElementException if the list is empty.\n */\n@sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n  if (isEmpty())\n    throw
NoSuchElementException("List is empty.")\n  return this[lastIndex]\n}\n\nReturns the last element
matching the given [predicate].\n */\n@throws NoSuchElementException if no such element is found.\n */\n@sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.last(predicate: (T)
-> Boolean): T {\n  var last: T? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element))

```

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    last = element
    found
    = true
    }
    }
    if (!found) throw NoSuchElementException("Collection contains no element matching the
predicate.")
    @Suppress("UNCHECKED_CAST")
    return last as T
}

/**
 * Returns the last element
matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 *
 * @sample samples.collections.Collections.Elements.last
 */
public inline fun <T> List<T>.last(predicate: (T) ->
Boolean): T {
    val iterator = this.listIterator(size)
    while (iterator.hasPrevious()) {
        val element =
iterator.previous()
        if (predicate(element)) return element
    }
    throw NoSuchElementException("List
contains no element matching the predicate.")
}

/**
 * Returns last index of [element], or -1 if the collection
does not contain element.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element:
T): Int {
    if (this is List) return this.lastIndexOf(element)
    var lastIndex
    = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item)
lastIndex = index
        index++
    }
    return lastIndex
}

/**
 * Returns last index of [element], or -1 if the
list does not contain element.
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning,
extension takes precedence in some cases
public fun <@kotlin.internal.OnlyInputTypes T>
List<T>.lastIndexOf(element: T): Int {
    return lastIndexOf(element)
}

/**
 * Returns the last element, or
`null` if the collection is empty.
 */
@sample samples.collections.Collections.Elements.last
public fun
<T> Iterable<T>.lastOrNull(): T? {
    when (this) {
        is List -> return if (isEmpty()) null else this[size - 1]
    }
    else -> {
        val iterator = iterator()
        if (!iterator.hasNext())
            return null
        var last =
iterator.next()
        while (iterator.hasNext()) {
            last = iterator.next()
        }
        return last
    }
}

/**
 * Returns the last element, or `null` if
the list is empty.
 */
@sample samples.collections.Collections.Elements.last
public fun <T>
List<T>.lastOrNull(): T? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element
matching the given [predicate], or `null` if no such element was found.
 */
@sample
samples.collections.Collections.Elements.last
public inline fun <T> Iterable<T>.lastOrNull(predicate: (T) ->
Boolean): T? {
    var last: T? = null
    for (element in this) {
        if (predicate(element)) {
            last =
element
        }
    }
    return last
}

/**
 * Returns the last element matching the given [predicate], or `null`
if no such element was found.
 */
@sample samples.collections.Collections.Elements.last
public inline
fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    val iterator
= this.listIterator(size)
    while (iterator.hasPrevious()) {
        val element = iterator.previous()
        if
(predicate(element)) return element
    }
    return null
}

/**
 * Returns a random element from this
collection.
 */
@throws NoSuchElementException if this collection is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.random(): T {
    return random(Random)
}

/**
 * Returns a random element from this collection using the specified source of
randomness.
 */
@throws NoSuchElementException if this collection is empty.
 */
@SinceKotlin("1.3")
public fun <T> Collection<T>.random(random: Random): T {
    if (isEmpty())
throw NoSuchElementException("Collection is empty.")
    return elementAt(random.nextInt(size))
}

/**
 * Returns a random element from this collection, or `null` if this collection is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public
inline fun <T> Collection<T>.randomOrNull(): T? {
    return randomOrNull(Random)
}

/**
 * Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun <T>
Collection<T>.randomOrNull(random: Random): T? {
    if (isEmpty())
return null
    return
elementAt(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the collection is
empty or has more than one element.
 */
public fun <T> Iterable<T>.single(): T {
    when (this) {
        is List -
> return this.single()
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
throw NoSuchElementException("Collection is empty.")
            val single = iterator.next()
            if
(iterator.hasNext())
                throw IllegalArgumentException("Collection

```



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has more than one element.}")\n    return single\n    }\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.single(): T {\n
return when (size) {\n    0 -> throw NoSuchElementException("List is empty.")\n    1 -> this[0]\n    else ->
throw IllegalArgumentException("List has more than one element.")\n }\n }\n}\n\n/**\n * Returns the single
element matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*/\npublic inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found
= false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Collection contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found)
throw NoSuchElementException("Collection contains no element matching the predicate.")\n }\n }\n}\n\n@Suppress("UNCHECKED_CAST")\n return single as T\n}\n}\n\n/**\n * Returns single element, or `null` if the
collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n    when
(this) {\n        is List -> return if (size == 1) this[0] else null\n        else -> {\n            val iterator = iterator()\n
if (!iterator.hasNext())\n                return null\n            val single = iterator.next()\n            if (iterator.hasNext())\n
return null\n            return single\n        }\n    }\n}\n}\n\n/**\n * Returns single element, or `null` if the list is
empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n    return if (size == 1)
this[0] else null\n}\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was
found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? =
null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n
single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n}\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T>
Iterable<T>.drop(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    if
(n == 0) return toList()\n    val list: ArrayList<T> = ArrayList<T>()\n    if (this is Collection<*>) {\n        val resultSize = size - n\n
if (resultSize <= 0)\n            return emptyList()\n        if (resultSize == 1)\n            return listOf(last())\n        list =
ArrayList<T>(resultSize)\n        if (this is List<T>) {\n            if (this is RandomAccess) {\n                for (index in n until size)\n                    list.add(this[index])\n            } else {\n                for (item in listIterator(n))\n                    list.add(item)\n            }\n        }\n        return list\n    }\n    else {\n        list = ArrayList<T>()\n        var count = 0\n        for (item in this) {\n
            if (count >= n) list.add(item) else ++count\n        }\n        return list.optimizeReadOnlyList()\n}\n}\n}\n\n/**\n * Returns a list
containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int):
List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return take((size -
n).coerceAtLeast(0))\n}\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy
the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline
fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator =
listIterator(size)\n        while (iterator.hasPrevious()) {\n            if (!predicate(iterator.previous())) {\n                return
take(iterator.nextIndex() + 1)\n            }\n        }\n    }\n    return emptyList()\n}\n}\n}\n\n/**\n * Returns a list containing
all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate:
(T) -> Boolean): List<T> {\n    var yielding = false\n    val list = ArrayList<T>()\n    for (item in this)\n        if
(yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n
        }\n    return list\n}\n}\n}\n\n/**\n * Returns
a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Iterable<T>.filter(predicate: (T) ->
Boolean): List<T> {\n    return filterTo(ArrayList<T>(), predicate)\n}\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the

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element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n * \n\npublic inline fun <T>
Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n    return
filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n * \n\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed { index,
element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n *
Returns a list containing all elements that are instances of specified type parameter R.\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstance\n * \n\npublic inline fun <reified R>
Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n    return
filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n * \n\npublic inline fun <reified R, C :
MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n    for (element
in this) if (element is R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing all
elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *
\n\npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {\n    return
filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n *
\n * @sample samples.collections.Collections.Filtering.filterNotNull\n * \n\npublic fun <T : Any>
Iterable<T?>.filterNotNull(): List<T> {\n    return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all
elements that are not `null` to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n * \n\npublic fun <C : MutableCollection<in T>, T : Any>
Iterable<T?>.filterNotNullTo(destination: C): C {\n    for (element in this) if (element != null)
destination.add(element)\n    return destination\n}\n\n/**\n *
\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n * \n\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if
(!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *
\n\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) ->
Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return
destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n * \n\npublic
fun <T> List<T>.slice(indices: IntRange): List<T> {\n    if (indices.isEmpty()) return listOf()\n    return
this.subList(indices.start,
indices.endInclusive + 1).toList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n *
\n\npublic fun <T> List<T>.slice(indices: Iterable<Int>): List<T> {\n    val size =
indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<T>(size)\n    for
(index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n]
elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n * \n\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n    if (n == 0) return emptyList()\n    if (this is
Collection<T>) {\n        if (n >= size) return toList()\n        if (n == 1) return listOf(first())\n    }\n    var count = 0\n
val list = ArrayList<T>(n)\n    for (item in this) {\n        list.add(item)\n        if
(++count == n)\n            break\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing
last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n * \n\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n

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require(n >= 0) { "Requested element count $n is less than zero." }
if (n == 0) return emptyList()
val size = size
if (n >= size) return toList()
if (n == 1) return listOf(last())
val list = ArrayList<T>(n)
if (this is RandomAccess) {
    for (index in size - n until size) list.add(this[index])
} else {
    for (item in listIterator(size - n)) list.add(item)
}
return list
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {
    if (isEmpty()) return emptyList()
    val iterator = listIterator(size)
    while (iterator.hasPrevious()) {
        if (!predicate(iterator.previous())) {
            iterator.next()
            val expectedSize = size - iterator.nextIndex()
            if (expectedSize == 0) return emptyList()
            return ArrayList<T>(expectedSize).apply {
                while (iterator.hasNext()) add(iterator.next())
            }
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {
    val list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item)) break
        list.add(item)
    }
    return list
}

/**
 * Reverses elements in the list in-place.
 */
public expect fun <T> MutableList<T>.reverse(): Unit

/**
 * Returns a list with elements in reversed order.
 */
public fun <T> Iterable<T>.reversed(): List<T> {
    if (this is Collection && size <= 1) return toList()
    val list = toMutableList()
    list.reverse()
    return list
}

/**
 * Randomly shuffles elements in this list in-place using the specified [random] instance as the source of randomness.
 * @sample samples.collections.Collections.Transformations.shuffle
 * See: https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm
 */
@SinceKotlin("1.3")
public fun <T> MutableList<T>.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        this[j] = this.set(i, this[j])
    }
}

/**
 * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortWith(compareBy(selector))
}

/**
 * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortWith(compareByDescending(selector))
}

/**
 * Sorts elements in the list in-place descending according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {
    sortWith(reverseOrder())
}

/**
 * Returns a list of all elements sorted according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {
    if (this is Collection) {
        if (size <= 1) return this.toList()
        @Suppress("UNCHECKED_CAST") return (toTypedArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()
    }
    return toMutableList().apply { sort() }
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
@sample samples.collections.Collections.Sorting.sortedBy
public inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareByDescending(selector))
}

/**
 * Returns a list of all elements sorted descending according to their natural sort order.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T>

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{\n  return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\npublic fun <T> Iterable<T>.sortedWith(comparator:
Comparator<in T>): List<T> {\n  if (this is Collection) {\n    if (size <= 1) return this.toList()\n  }\n  @Suppress("UNCHECKED_CAST")\n  return (toArray<Any?>() as Array<T>).apply {
sortWith(comparator) }.asList()\n }\n  return toMutableList().apply { sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the elements of this collection.\n */\npublic fun
Collection<Boolean>.toBooleanArray(): BooleanArray {\n  val result = BooleanArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] = element\n  return result\n}\n\n/**\n * Returns an array of Byte
containing all of the elements of this collection.\n */\npublic fun Collection<Byte>.toByteArray(): ByteArray {\n
val result = ByteArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] = element\n  return
result\n}\n\n/**\n * Returns an array of Char containing all of the elements of this collection.\n */\npublic fun
Collection<Char>.toCharArray():
CharArray {\n  val result = CharArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] =
element\n  return result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n
*/\npublic fun Collection<Double>.toDoubleArray(): DoubleArray {\n  val result = DoubleArray(size)\n  var
index = 0\n  for (element in this)\n    result[index++] = element\n  return result\n}\n\n/**\n * Returns an array
of Float containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray():
FloatArray {\n  val result = FloatArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] =
element\n  return result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n
*/\npublic fun Collection<Int>.toIntArray(): IntArray {\n  val result = IntArray(size)\n  var index = 0\n  for
(element in this)\n    result[index++]
= element\n  return result\n}\n\n/**\n * Returns an array of Long containing all of the elements of this
collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n  val result = LongArray(size)\n  var
index = 0\n  for (element in this)\n    result[index++] = element\n  return result\n}\n\n/**\n * Returns an array
of Short containing all of the elements of this collection.\n */\npublic fun Collection<Short>.toShortArray():
ShortArray {\n  val result = ShortArray(size)\n  var index = 0\n  for (element in this)\n    result[index++] =
element\n  return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform]
function\n * applied to elements of the given collection.\n * \n * If any of two pairs would have the same key the last
one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n
*/\n * \n * @sample samples.collections.Collections.Transformations.associate\n
*/\npublic inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n  val
capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n  return
associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements
from the given collection indexed by the key\n * returned from [keySelector] function applied to each element.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>
Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n  val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,
T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements
would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>
Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n  val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with

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key-value pairs, where key is provided by the [keySelector] function applied to each element of the given collection and value is the element itself. If any two elements would have the same key returned by [keySelector] the last

one gets added to the map. @sample samples.collections.Collections.Transformations.associateByTo  
public inline fun <T, K, M : MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {  
 for (element in this) {  
 destination.put(keySelector(element), element)  
 }  
 return destination  
}  
Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function applied to elements of the given collection. If any two elements would have the same key returned by [keySelector] the last one gets added to the map. @sample

samples.collections.Collections.Transformations.associateByToWithValueTransform  
public inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {  
 for (element in this)

{  
 destination.put(keySelector(element), valueTransform(element))  
}  
return destination  
}  
Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given collection. If any of two pairs would have the same key the last one gets added to the map. @sample samples.collections.Collections.Transformations.associateTo  
public inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {  
 for (element in this) {  
 destination += transform(element)  
 }  
 return destination  
}  
Returns a [Map] where keys are elements from the given collection and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original

collection. @sample samples.collections.Collections.Transformations.associateWith  
@SinceKotlin("1.3")  
public inline fun <K, V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {  
 val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))  
 return associateWithTo(result, valueSelector)  
}  
Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map. @sample

samples.collections.Collections.Transformations.associateWithTo  
@SinceKotlin("1.3")  
public inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {  
 for (element in this) {  
 destination.put(element, valueSelector(element))  
 }  
 return destination  
}  
Appends all elements to the given [destination] collection. @sample  
public fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {  
 for (item in this) {  
 destination.add(item)  
 }  
 return destination  
}  
Returns a new [HashSet] of all elements. @sample  
public fun <T> Iterable<T>.toHashSet(): HashSet<T> {  
 return

toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))  
Returns a [List] containing all elements. @sample  
public fun <T> Iterable<T>.toList(): List<T> {  
 if (this is Collection) {  
 return when (size) {  
 0 -> emptyList()  
 1 -> listOf(if (this is List) get(0) else iterator().next())  
 else -> this.toMutableList()  
 }  
 }  
 return this.toMutableList().optimizeReadOnlyList()  
}  
Returns a new [MutableList] filled with all elements of this collection. @sample  
public fun <T> Iterable<T>.toMutableList():

MutableList<T> {  
 if (this is Collection<T>) {  
 return this.toMutableList()  
 }  
 return toCollection(ArrayList<T>())  
}  
Returns a new [MutableList] filled with all elements of this collection. @sample  
public fun <T> Collection<T>.toMutableList(): MutableList<T> {  
 return ArrayList(this)  
}  
Returns a [Set] of all elements. The returned set preserves the element iteration order of the original

collection. @sample  
public fun <T> Iterable<T>.toSet(): Set<T> {  
 if (this is Collection) {  
 return when (size) {  
 0 -> emptySet()  
 1 -> setOf(if (this is List) this[0] else iterator().next())  
 else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))  
 }  
 }  
 return

toCollection(LinkedHashSet<T>(mapCapacity(size)))  
}

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toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n\n/**\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original collection.\n
 * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its
index in the original collection, to the given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original collection, to the given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Sequence<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original collection, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in
R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for (element in this) {\n        val
list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original collection, to
the given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return

```

```

destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n    return
groupByTo(LinkedHashMap<K,
MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to
each element of the original collection\n * by the key returned by the given [keySelector] function applied to the
element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The
returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V>
Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original collection by the key returned by the given [keySelector] function\n * applied to each element and
puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M,
keySelector: (T) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<T>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by
the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map
each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n *
@sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform:
(T) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K>
Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n    return object : Grouping<T, K>
{\n        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n        override fun keyOf(element:
T): K = keySelector(element)\n    }\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {\n    return
mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each element and its index in the original collection.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n */\npublic inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T)
-> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and
its index in the original collection.\n * @param [transform] function that takes the index of an element and the
element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n    return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to
each element and its index in the original collection\n * and appends only the non-null results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and

```

returns the result of the transform applied to the element.

```

public inline fun <T, R : Any, C :
MutableCollection<in R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C
{
    for<Indexed> { index, element -> transform(index, element)?.let { destination.add(it) } }
    return destination
}

```

\* Applies the given [transform] function to each element and its index in the original collection and appends the results to the given [destination].

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform:
(index: Int, T) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(checkIndexOverflow(index++), item))
    return destination
}

```

\* Returns a list containing only the non-null results of applying the given [transform] function to each element in the original collection.

@sample samples.collections.Collections.Transformations.mapNotNull

```

public inline fun
<T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(),
transform)
}

```

\* Applies the given [transform] function to each element in the original collection and appends only the non-null results to the given [destination].

@public inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {

```

    for<Each> { element -> transform(element)?.let { destination.add(it) } }
    return destination
}

```

\* Applies the given [transform] function to each element of the original collection and appends the results to the given [destination].

@public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {

```

    for (item in this)
        destination.add(transform(item))
    return destination
}

```

\* Returns a lazy [Iterable] that wraps each element of the original collection into an [IndexedValue] containing the index of that element and the element itself.

@public fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {

```

    return IndexingIterable {
        iterator()
    }
}

```

\* Returns a list containing only distinct elements from the given collection.

\* Among equal elements of the given collection, only the first one will be present in the resulting list.

\* The elements in the resulting list are in the same order as they were in the source collection.

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy

```

public fun <T> Iterable<T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}

```

\* Returns a list containing only elements from the given collection having distinct keys returned by the given [selector] function.

\* Among elements of the given collection with equal keys, only the first one will be present in the resulting list.

\* The elements in the resulting list are in the same order as they were in the source collection.

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy

```

public inline fun <T, K>
Iterable<T>.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

```

\* Returns a set containing all elements that are contained by both this collection and the specified collection.

\* The returned set preserves the element iteration order of the original collection.

\* To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

```

\* Returns a set containing all elements that are contained by this collection and not contained by the specified collection.

\* The returned set preserves the element iteration order of the original collection.

```

public infix fun <T> Iterable<T>.subtract(other:
Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

\* Returns a new [MutableSet] containing all distinct elements from the given collection.

\* The returned set preserves the element iteration order of the original collection.

```

public fun
<T> Iterable<T>.toMutableSet(): MutableSet<T> {
    return when (this) {
        is Collection<T> ->
            LinkedHashSet(this)
        else -> toCollection(LinkedHashSet<T>())
    }
}

```

\* Returns a set containing all distinct elements from both collections.

\* The returned set preserves the element iteration order of the original collection.

\* Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection.

\* To get a set containing all elements that are contained in both collections use



```

[intersect].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*\npublic inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n if (this is Collection &&
isEmpty()) return true\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n**\n *
Returns `true` if collection has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n * \npublic fun <T> Iterable<T>.any(): Boolean {\n if (this is
Collection) return !isEmpty()\n return iterator().hasNext()\n}\n\n**\n * Returns `true` if at least one element
matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\npublic inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n if (this is Collection &&
isEmpty()) return false\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n**\n *
Returns the number of elements in this collection.\n * \npublic fun <T> Iterable<T>.count(): Int {\n if (this is
Collection)
return size\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n**\n *
Returns the number of elements in this collection.\n * \n@kotlin.internal.InlineOnly\npublic inline fun <T>
Collection<T>.count(): Int {\n return size\n}\n\n**\n * Returns the number of elements matching the given
[predicate].\n * \npublic inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {\n if (this is Collection
&& isEmpty()) return 0\n var count = 0\n for (element in this) if (predicate(element))
checkCountOverflow(++count)\n return count\n}\n\n**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \npublic inline fun <T, R>
Iterable<T>.fold(initial:
R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator =
operation(accumulator, element)\n return accumulator\n}\n\n**\n * Accumulates value starting with [initial]
value and applying [operation] from left to right\n * to current accumulator value and each element with its index in
the original collection.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n * \npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation:
(index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator
= operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n**\n *
Accumulates value starting with [initial] value and applying [operation]
from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if
the list is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and
calculates the next accumulator value.\n * \npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T,
acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while
(iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n }\n return
accumulator\n}\n\n**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original list and current accumulator value.\n * \n * Returns the
specified [initial] value if the list is empty.\n * \n * @param [operation] function that takes the index of an element,
the element itself\n * and current accumulator
value, and calculates the next accumulator value.\n * \npublic inline fun <T, R> List<T>.foldRightIndexed(initial:
R, operation: (index: Int, T, acc: R) -> R): R {\n var accumulator = initial\n if (!isEmpty()) {\n val iterator =
listIterator(size)\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator =
operation(index, iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n**\n *
Performs the given [action] on each element.\n * \n@kotlin.internal.HidesMembers\npublic inline fun <T>
Iterable<T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n**\n *
Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that

```

takes the index of an element and the element itself

```

public inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T)
-> Unit): Unit {
    var index = 0
    for (item in this) action(checkIndexOverflow(index++),
item)
}
}
}
@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")
@SinceKotlin("1.1")
public fun Iterable<Double>.max(): Double? {
    return
maxOrNull()
}
}
}
@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")
@SinceKotlin("1.1")
public fun Iterable<Float>.max(): Float? {
    return
maxOrNull()
}
}
}
@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")
public fun <T : Comparable<T>> Iterable<T>.max(): T? {
    return
maxOrNull()
}
}
}
@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))
@DeprecatedSinceKotlin(warningSince
= "1.4", errorSince = "1.5", hiddenSince = "1.6")
public inline fun <T, R : Comparable<R>>
Iterable<T>.maxBy(selector: (T) -> R): T? {
    return maxByOrNull(selector)
}
}
}
/**
 * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.
 *
 * @sample
samples.collections.Collections.Aggregates.maxByOrNull
 *
 */
@SinceKotlin("1.4")
public inline fun <T, R :
Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {
    val iterator = iterator()
    if
(!iterator.hasNext()) return null
    var maxElem = iterator.next()
    if (!iterator.hasNext()) return maxElem
    var
maxValue = selector(maxElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue <
v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return
maxElem
}
}
}
/**
 * Returns the largest value among all values produced by [selector]
function
 * applied to each element in the collection.
 *
 * If any of values produced by [selector] function is
`NaN`, the returned result is `NaN`.
 *
 * @throws NoSuchElementException if the collection is empty.
 *
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Double): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var
maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
}
}
/**
 * Returns the largest value among all
values produced by [selector] function
 * applied to each element in the collection.
 *
 * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.
 *
 * @throws NoSuchElementException
if the collection is empty.
 *
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var
maxValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
}
}
/**
 * Returns the largest value among all
values produced by [selector] function
 * applied to each element in the collection.
 *
 * @throws
NoSuchElementException if the collection is empty.
 *
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>>
Iterable<T>.maxOf(selector: (T) -> R): R
{
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var maxValue =
selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (maxValue <
v) {
            maxValue = v
        }
    }
    return maxValue
}
}
}
/**
 * Returns the largest value among all
values produced by [selector] function
 * applied to each element in the collection or `null` if there are no
elements.
 *
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 *
 */

```

```

*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Double): Double? {\/n val iterator = iterator()\/n if (!iterator.hasNext()) return null\/n var maxValue =
selector(iterator.next())\/n while (iterator.hasNext()) {\/n val v = selector(iterator.next())\/n
maxValue = maxOf(maxValue, v)\/n }\/n return maxValue}\/n\/n/**\/n * Returns the largest value among all
values produced by [selector] function\/n * applied to each element in the collection or `null` if there are no
elements.\/n *\/n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\/n
*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Float): Float? {\/n val iterator = iterator()\/n if (!iterator.hasNext()) return null\/n var maxValue =
selector(iterator.next())\/n while (iterator.hasNext()) {\/n val v = selector(iterator.next())\/n maxValue =
maxOf(maxValue, v)\/n }\/n return maxValue}\/n\/n/**\/n * Returns the largest value among all values produced
by [selector] function\/n * applied to each element in the collection or `null`
if there are no elements.\/n
*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {\/n val iterator = iterator()\/n if (!iterator.hasNext()) return
null\/n var maxValue = selector(iterator.next())\/n while (iterator.hasNext()) {\/n val v =
selector(iterator.next())\/n if (maxValue < v) {\/n maxValue = v\/n }\/n }\/n return
maxValue}\/n\/n/**\/n * Returns the largest value according to the provided [comparator]\/n * among all values
produced by [selector] function applied to each element in the collection.\/n *\/n * @throws
NoSuchElementException if the collection is empty.\/n
*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun <T, R>
Iterable<T>.maxOfWith(comparator:
Comparator<in R>, selector: (T) -> R): R {\/n val iterator = iterator()\/n if (!iterator.hasNext()) throw
NoSuchElementException()\/n var maxValue = selector(iterator.next())\/n while (iterator.hasNext()) {\/n val v
= selector(iterator.next())\/n if (comparator.compare(maxValue, v) < 0) {\/n maxValue = v\/n }\/n }\/n
return maxValue}\/n\/n/**\/n * Returns the largest value according to the provided [comparator]\/n * among all
values produced by [selector] function applied to each element in the collection or `null` if there are no elements.\/n
*\/n@SinceKotlin("1.4")\/n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\/n@OverloadResolution
ByLambdaReturnType\/n@kotlin.internal.InlineOnly\/npublic inline fun <T, R>
Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\/n val iterator =
iterator()\/n if (!iterator.hasNext()) return null\/n var maxValue = selector(iterator.next())\/n
while (iterator.hasNext()) {\/n val v = selector(iterator.next())\/n if (comparator.compare(maxValue, v) <
0) {\/n maxValue = v\/n }\/n }\/n return maxValue}\/n\/n/**\/n * Returns the largest element or `null` if
there are no elements.\/n *\/n * If any of elements is `NaN` returns `NaN`.\/n *\/n@SinceKotlin("1.4")\/npublic fun
Iterable<Double>.maxOrNull(): Double? {\/n val iterator = iterator()\/n if (!iterator.hasNext()) return null\/n var
max = iterator.next()\/n while (iterator.hasNext()) {\/n val e = iterator.next()\/n max = maxOf(max, e)\/n
}\/n return max}\/n\/n/**\/n * Returns the largest element or `null` if there are no elements.\/n *\/n * If any of
elements is `NaN` returns `NaN`.\/n *\/n@SinceKotlin("1.4")\/npublic fun Iterable<Float>.maxOrNull(): Float? {\/n
val iterator = iterator()\/n if (!iterator.hasNext()) return null\/n var max = iterator.next()\/n while
(iterator.hasNext()) {\/n val e = iterator.next()\/n
max = maxOf(max, e)\/n }\/n return max}\/n\/n/**\/n * Returns the largest element or `null` if there are no
elements.\/n *\/n@SinceKotlin("1.4")\/npublic fun <T : Comparable<T>> Iterable<T>.maxOrNull(): T? {\/n val
iterator = iterator()\/n if (!iterator.hasNext()) return null\/n var max = iterator.next()\/n while (iterator.hasNext())
{\/n val e = iterator.next()\/n if (max < e) max = e\/n }\/n return max}\/n\/n@Deprecated("Use
maxWithOrNull instead.",

```

```

ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n    return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n * \n *\n */\n@SinceKotlin("1.4")\npublic fun <T> Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n@Deprecated("Use minOrNull instead.")\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.min(): Double? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.")\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.min(): Float? {\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.")\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Iterable<T>.min(): T? {\n    return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.")\nReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {\n    return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n * \n *\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minByOrNull(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n * \n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n * \n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n * \n *\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun <T, R : Comparable<R>> Iterable<T>.minOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.
If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.
If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

Returns the smallest value among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>> Iterable<T>.minOfOrNull(selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the collection.
@throws NoSuchElementException if the collection is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Iterable<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the collection or `null` if there are no elements.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R> Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

Returns the smallest element or `null` if there are no elements.
If any of elements is `NaN` returns `NaN`.

@SinceKotlin("1.4")
public fun Iterable<Double>.minOrNull(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        min = minOf(min, e)
    }
    return min
}

Returns the smallest element or `null` if there are no elements.
If any of elements is `NaN` returns `NaN`.

@SinceKotlin("1.4")
public fun

```

```

Iterable<Float>.minOrNull(): Float? {\n  val iterator
= iterator()\n  if (!iterator.hasNext()) return null\n  var min = iterator.next()\n  while (iterator.hasNext()) {\n
val e = iterator.next()\n    min = minOf(min, e)\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or
`null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>>
Iterable<T>.minOrNull(): T? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var min =
iterator.next()\n  while (iterator.hasNext()) {\n    val e = iterator.next()\n    if (min > e) min = e\n  }\n  return
min\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n
return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to
the provided [comparator]
or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T>
Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n  val iterator = iterator()\n  if
(!iterator.hasNext()) return null\n  var min = iterator.next()\n  while (iterator.hasNext()) {\n    val e =
iterator.next()\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns `true` if
the collection has no elements.\n */\n@sample samples.collections.Collections.Aggregates.none\n */\npublic fun
<T> Iterable<T>.none(): Boolean {\n  if (this is Collection) return isEmpty()\n  return
!iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n */\n@sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T>
Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n  if (this is Collection && isEmpty()) return true\n  for
(element in this) if (predicate(element)) return
false\n  return true\n}\n\n/**\n * Performs the given [action] on each element and returns the collection itself
afterwards.\n */\n@SinceKotlin("1.1")\npublic inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C
{\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each
element, providing sequential index with the element,\n */\n@sample samples.collections.Collections.Aggregates
 */\n@param [action] function that takes the index of an element and the element itself\n */\nand performs the action on the
element.\n */\n@SinceKotlin("1.4")\npublic inline fun <T, C : Iterable<T>> C.onEachIndexed(action: (index: Int,
T) -> Unit): C {\n  return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n */\n@sample samples.collections.Collections.Aggregates
 */\n@to current accumulator value and each element.\n */\nThrows an exception if this collection is empty. If the collection can be empty in an expected
way,\n */\n@please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n */\n@param [operation]
function that takes current accumulator value and an element,\n */\nand calculates the next accumulator value.\n */\n@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S>
Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n  val iterator = this.iterator()\n  if (!iterator.hasNext()) throw
UnsupportedOperationException("Empty collection can't be reduced.")\n  var accumulator: S = iterator.next()\n  while
(iterator.hasNext()) {\n    accumulator = operation(accumulator, iterator.next())\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n */\n@sample samples.collections.Collections.Aggregates.reduce\n */\n@to current accumulator value and each element with its index in the original collection.\n */\nThrows an
exception if this collection is empty. If the collection can be empty in an expected
way,\n */\n@please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n */\n@param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n */\nand
calculates the next accumulator value.\n */\n@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n  val
iterator = this.iterator()\n  if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't
be reduced.")\n  var index = 1\n  var accumulator: S = iterator.next()\n  while (iterator.hasNext()) {\n
accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n */\n@sample samples.collections.Collections.Aggregates.reduce\n */\n@to current accumulator value and each element with its index in the original collection.\n

```

```

* \n * Returns `null` if the collection is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun
<S, T : S> Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n    val iterator =
this.iterator()\n    if (!iterator.hasNext()) return null\n    var index = 1\n    var accumulator: S = iterator.next()\n
while (iterator.hasNext()) {\n        accumulator = operation(checkIndexOverflow(index++), accumulator,
iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if
the collection is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n *@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if
(!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use
[reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
takes an element and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n * \npublic inline fun <S, T : S>
List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        throw UnsupportedOperationException("Empty list can't be reduced.")\n    var
accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        accumulator =
operation(iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting
with the last element and applying [operation] from right to left\n * to each element with its index in the original list
and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
*\n * @param [operation] function that takes the index of an
element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRight\n * \npublic inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        throw UnsupportedOperationException("Empty list can't be reduced.")\n    var
accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        val index = iterator.previousIndex()\n
accumulator = operation(index, iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original list and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself
and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n * \n *@SinceKotlin("1.4")\npublic inline fun <S,
T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n    val iterator =
listIterator(size)\n    if (!iterator.hasPrevious())\n        return null\n    var accumulator: S = iterator.previous()\n
while (iterator.hasPrevious()) {\n        val index = iterator.previousIndex()\n        accumulator = operation(index,
iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the list is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

```

```

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^npublic inline fun <S, T : S>
List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {^n    val iterator = listIterator(size)^n    if
(!iterator.hasPrevious())^n        return null^n    var accumulator: S = iterator.previous()^n    while
(iterator.hasPrevious()) {^n        accumulator = operation(iterator.previous(), accumulator)^n    }^n    return
accumulator^n}^n/**^n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right^n * to each element and current accumulator value that starts with [initial] value.^n *
* Note that `acc` value passed to [operation] function should not be mutated;^n * otherwise it would affect the
previous value in resulting list.^n * ^n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.^n * ^n * @sample
samples.collections.Collections.Aggregates.runningFold^n *^@SinceKotlin("1.4")^npublic inline fun <T, R>
Iterable<T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {^n    val estimatedSize =
collectionSizeOrDefault(9)^n    if (estimatedSize == 0) return listOf(initial)^n    val result =
ArrayList<R>(estimatedSize + 1).apply { add(initial) }^n    var accumulator = initial^n    for (element in this) {^n
    accumulator = operation(accumulator, element)^n    result.add(accumulator)^n }^n    return result^n}^n/**^n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right^n *
to each element, its index in the original collection and current accumulator value that starts with [initial] value.^n *
* Note that `acc` value passed to [operation] function should not be mutated;^n * otherwise it would affect the
previous value in resulting list.^n * ^n * @param [operation] function that takes the index of an
element, current accumulator value^n * and the element itself, and calculates the next accumulator value.^n * ^n *
@sample samples.collections.Collections.Aggregates.runningFold^n *^@SinceKotlin("1.4")^npublic inline fun
<T, R> Iterable<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {^n    val
estimatedSize = collectionSizeOrDefault(9)^n    if (estimatedSize == 0) return listOf(initial)^n    val result =
ArrayList<R>(estimatedSize + 1).apply { add(initial) }^n    var index = 0^n    var accumulator = initial^n    for
(element in this) {^n        accumulator = operation(index++, accumulator, element)^n        result.add(accumulator)^n
    }^n    return result^n}^n/**^n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right^n * to each element and current accumulator value that starts with the first element of
this collection.^n * ^n * Note that `acc` value passed to [operation] function should
not be mutated;^n * otherwise it would affect the previous value in resulting list.^n * ^n * @param [operation]
function that takes current accumulator value and the element, and calculates the next accumulator value.^n * ^n *
@sample samples.collections.Collections.Aggregates.runningReduce^n
*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^npublic inline fun <S, T : S>
Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {^n    val iterator = this.iterator()^n    if
(!iterator.hasNext()) return emptyList()^n    var accumulator: S = iterator.next()^n    val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }^n    while (iterator.hasNext()) {^n
    accumulator = operation(accumulator, iterator.next())^n    result.add(accumulator)^n }^n    return
result^n}^n/**^n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right^n * to each element, its index in the
original collection and current accumulator value that starts with the first element of this collection.^n * ^n * Note
that `acc` value passed to [operation] function should not be mutated;^n * otherwise it would affect the previous
value in resulting list.^n * ^n * @param [operation] function that takes the index of an element, current accumulator
value^n * and the element itself, and calculates the next accumulator value.^n * ^n * @sample
samples.collections.Collections.Aggregates.runningReduce^n *^@SinceKotlin("1.4")^npublic inline fun <S, T :
S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {^n    val iterator =
this.iterator()^n    if (!iterator.hasNext()) return emptyList()^n    var accumulator: S = iterator.next()^n    val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }^n    var index = 1^n    while
(iterator.hasNext()) {^n        accumulator = operation(index++, accumulator, iterator.next())^n
    result.add(accumulator)^n}

```



}  
return result  
Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample  
samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>\nIterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n    return runningFold(initial,\n        operation)\n}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original collection

and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
@sample  
samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>\nIterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    return\n        runningFoldIndexed(initial, operation)\n}
```

Returns the sum of all values produced by [selector] function applied to each element in the collection.

```
*\n@Deprecated("Use sumOf instead.")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>\nIterable<T>.sumBy(selector: (T) -> Int):
```

```
Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return\n        sum\n}
```

Returns the sum of all values produced by [selector] function applied to each element in the collection.

```
*\n@Deprecated("Use sumOf instead.")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>\nIterable<T>.sumByDouble(selector: (T) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)\n        sum += selector(element)\n    return sum\n}
```

Returns the sum of all values produced by [selector] function applied to each element in the collection.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\n<T> Iterable<T>.sumOf(selector: (T) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element\n        in this) {\n        sum += selector(element)\n    }\n    return sum\n}
```

Returns the sum of all values produced by [selector] function applied to each element in the collection.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>\nIterable<T>.sumOf(selector: (T) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum +=\n            selector(element)\n    }\n    return sum\n}
```

Returns the sum of all values produced by [selector] function applied to each element in the collection.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun\n<T> Iterable<T>.sumOf(selector: (T) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element\n        in this) {\n        sum += selector(element)\n    }\n    return sum\n}
```

Returns the sum of all values produced by [selector] function applied to each element in the collection.

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return\n        sum\n}
```

Returns the sum of all values produced by [selector] function applied to each element in the collection.

```

*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*\npublic fun <T : Any> Iterable<T?>.requireNoNulls(): Iterable<T> {\n    for (element in this) {\n        if (element
== null) {\n            throw IllegalArgumentException("null element found in $this.")\n        }\n    }\n}
\n\n@Suppress("UNCHECKED_CAST")\n    return this as Iterable<T>\n}\n\n/**\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n    for (element in this) {\n        if (element ==
null) {\n            throw IllegalArgumentException("null element found in $this.")\n        }\n    }\n}\n}
\n\n@Suppress("UNCHECKED_CAST")\n    return this as List<T>\n}\n}\n\n/**\n * Splits this
collection into a list of lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have
fewer elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be
positive and can be greater than the number of elements in this collection.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n *\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.chunked(size: Int): List<List<T>> {\n    return windowed(size, size, partialWindows = true)\n}\n\n/**\n
 * Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform]
function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the
list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should
not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer
elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive
and can be greater than the number of elements in this collection.\n * \n * @sample
samples.text.Strings.chunkedTransform\n *\n@SinceKotlin("1.2")\npublic fun <T, R> Iterable<T>.chunked(size:
Int, transform: (List<T>) -> R): List<R> {\n    return windowed(size, size, partialWindows = true, transform =
transform)\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence
of the given [element].\n *\npublic operator fun <T> Iterable<T>.minus(element: T): List<T> {\n    val result =
ArrayList<T>(collectionSizeOrDefault(10))\n    var removed = false\n    return this.filterTo(result) { if (!removed
&& it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of
the original collection except the elements contained in the given [elements] array.\n * \n * Before Kotlin 1.6, the
[elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required
to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive
invocations.\n * On JVM, you can enable this behavior back with the system property
`kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n *\npublic operator fun <T>
Iterable<T>.minus(elements: Array<out T>): List<T> {\n    if (elements.isEmpty()) return this.toList()\n    val other
= elements.convertToSetForSetOperation()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list
containing all elements of the original collection except the elements contained in the given [elements] collection.\n
 * \n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the
operation, thus the elements
were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between
successive invocations.\n * On JVM, you can enable this behavior back with the system property
`kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n *\npublic operator fun <T>
Iterable<T>.minus(elements: Iterable<T>): List<T> {\n    val other =
elements.convertToSetForSetOperationWith(this)\n    if (other.isEmpty())\n        return this.toList()\n    return
this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the
elements contained in the given [elements] sequence.\n * \n * Before Kotlin 1.6, the [elements] sequence may have
been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and

```

stable implementation of `hashCode()` that didn't change between successive invocations.

\* On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

```

public operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {
    val other = elements.convertToSetForSetOperation()
    if (other.isEmpty())
        return this.toList()
    return this.filterNot { it in other }
}

```

\* Returns a list containing all elements of the original collection without the first occurrence of the given [element].

```

@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minusElement(element: T): List<T> {
    return minus(element)
}

```

\* Splits the original collection into pair of lists, where `first` list contains elements for which [predicate] yielded `true`, while `second` list contains elements for which [predicate] yielded `false`.

@sample

```

samples.collections.Iterables.Operations.partition

```

```

public inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element))
            first.add(element)
        else
            second.add(element)
    }
    return Pair(first, second)
}

```

\* Returns a list containing all elements of the original collection and then the given [element].

```

public operator fun <T> Iterable<T>.plus(element: T): List<T> {
    if (this is Collection)
        return this.plus(element)
    val result = ArrayList<T>()
    result.addAll(this)
    result.add(element)
    return result
}

```

\* Returns a list containing all elements of the original collection and then the given [element].

```

public operator fun <T> Collection<T>.plus(element: T): List<T> {
    val result = ArrayList<T>(size + 1)
    result.addAll(this)
    result.add(element)
    return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] array.

```

public operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {
    if (this is Collection)
        return this.plus(elements)
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] array.

```

public operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {
    val result = ArrayList<T>(this.size + elements.size)
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.

```

public operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {
    if (this is Collection)
        return this.plus(elements)
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.

```

public operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {
    if (elements is Collection) {
        val result = ArrayList<T>(this.size + elements.size)
        result.addAll(this)
        result.addAll(elements)
        return result
    } else {
        val result = ArrayList<T>(this)
        result.addAll(elements)
        return result
    }
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.

```

public operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.

```

public operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {
    val result = ArrayList<T>(this.size + 10)
    result.addAll(this)
    result.addAll(elements)
    return result
}

```

\* Returns a list containing all elements of the original collection and then the given [element].

```

@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.plusElement(element: T): List<T> {
    return plus(element)
}

```

\* Returns a list containing all elements of the original collection and then the given [element].

```

@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.plusElement(element: T): List<T> {
    return plus(element)
}

```

\* Returns a list of snapshots of the window of the given [size] sliding along this collection with the given [step], where each snapshot is a list.

\* Several last lists may have fewer elements than the given [size].

\* Both [size] and [step] must be positive and can be greater than the number of elements in this collection.

\* @param size the

number of elements to take in each window\n \* @param step the number of elements to move the window forward by on an each step, by default 1\n \* @param partialWindows controls whether or not to keep partial windows in the end if any,\n \* by default `false` which means partial windows won't be preserved\n \* \n \* @sample samples.collections.Sequences.Transformations.takeWindows\n \* ^\n@SinceKotlin("1.2")\npublic fun <T> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result = ArrayList<List<T>>(resultCapacity)\n var index = 0\n while (index in 0 until thisSize) {\n val windowSize = size.coerceAtMost(thisSize - index)\n if (windowSize < size && !partialWindows) break\n result.add(List(windowSize) { this[it + index] })\n index += step\n }\n return result\n }\n val result = ArrayList<List<T>>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n result.add(it)\n }\n return result\n}\n\n/\*\*\n \* Returns a list of results of applying the given [transform] function to\n \* an each list representing a view over the window of the given [size]\n \* sliding along this collection with the given [step].\n \* \n \* Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n \* You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n \* Several last lists may have fewer elements than the given [size].\n \* \n \* Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n \* @param size the number of elements to take in each window\n \* @param step the number of elements to move the window forward by on an each step, by default 1\n \* @param partialWindows controls whether or not to keep partial windows in the end if any,\n \* by default `false` which means partial windows won't be preserved\n \* \n \* @sample samples.collections.Sequences.Transformations.averageWindows\n \* ^\n@SinceKotlin("1.2")\npublic fun <T, R> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {\n checkWindowSizeStep(size, step)\n if (this is RandomAccess && this is List) {\n val thisSize = this.size\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result = ArrayList<R>(resultCapacity)\n val window = MovingSubList(this)\n var index = 0\n while (index in 0 until thisSize) {\n val windowSize = size.coerceAtMost(thisSize - index)\n if (!partialWindows && windowSize < size) break\n window.move(index, index + windowSize)\n result.add(transform(window))\n index += step\n }\n return result\n }\n val result = ArrayList<R>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n result.add(transform(it))\n }\n return result\n}\n\n/\*\*\n \* Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample samples.collections.Iterables.Operations.zipIterable\n \* ^\npublic infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/\*\*\n \* Returns a list of values built from the elements of `this` collection and the [other] array with the same index\n \* using the provided [transform] function applied to each pair of elements.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n \* ^\npublic inline fun <T, R, V> Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = other.size\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in this) {\n if (i >= arraySize) break\n list.add(transform(element, other[i++]))\n }\n return list\n}\n\n/\*\*\n \* Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample samples.collections.Iterables.Operations.zipIterable\n \* ^\npublic infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/\*\*\n \* Returns a list of values built from the elements of `this` collection and the [other] collection with the same index\n \* using the provided [transform] function applied to

```

each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n public inline fun <T, R, V>
Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n    val first = iterator()\n    val second
= other.iterator()\n    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),
other.collectionSizeOrDefault(10)))\n    while (first.hasNext() && second.hasNext()) {\n
list.add(transform(first.next(), second.next()))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs of each two
adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two
elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n
*\n @SinceKotlin("1.2")\n public fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n    return zipWithNext
{ a, b -> a to b }\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this
collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n * \n @SinceKotlin("1.2")\n public
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return emptyList()\n    val result = mutableListOf<R>()\n    var current = iterator.next()\n
while (iterator.hasNext()) {\n        val next = iterator.next()\n        result.add(transform(current, next))\n        current
= next\n    }\n    return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and
using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n
* elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n * \n public fun <T, A : Appendable>
Iterable<T>.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = "", postfix: CharSequence
= "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1) buffer.append(separator)\n
        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element, transform)\n        } else break\n    }\n    if
(limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n *
Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
supplied.\n * \n * If the collection could be huge, you can specify a non-negative
value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string
(which defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n
*\n public fun <T> Iterable<T>.joinToString(separator: CharSequence = '\n', prefix: CharSequence = "", postfix:
CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null):
String {\n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated,
transform).toString()\n}\n\n/**\n * Returns this collection as an [Iterable].\n * \n @kotlin.internal.InlineOnly\n public
inline fun <T> Iterable<T>.asIterable(): Iterable<T> {\n    return this\n}\n\n/**\n * Creates a [Sequence] instance
that wraps the original collection returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromCollection\n * \n public fun <T> Iterable<T>.asSequence():
Sequence<T>
{\n    return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n @kotlin.jvm.JvmName("averageOfByte")\n public fun Iterable<Byte>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n * \n @kotlin.jvm.JvmName("averageOfShort")\n public fun
Iterable<Short>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n @kotlin.jvm.JvmName("averageOfInt")\n public fun Iterable<Int>.average(): Double {\n    var sum: Double =
0.0\n    var count: Int = 0\n    for

```

```

(element in this) {\n    sum += element\n    checkCountOverflow(++count)\n } \n return if (count == 0)
Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*/\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Iterable<Long>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    } \n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun
Iterable<Float>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
sum += element\n        checkCountOverflow(++count)\n    } \n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*/\n@kotlin.jvm.JvmName("averageOfDouble")\npublic
fun Iterable<Double>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this)
{\n        sum += element\n        checkCountOverflow(++count)\n    } \n return if (count == 0) Double.NaN else sum
/ count\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Iterable<Byte>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    } \n return sum\n}\n\n/**\n * Returns the sum of all elements in the
collection.\n */\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Iterable<Short>.sum(): Int {\n    var sum: Int
= 0\n    for (element in this) {\n        sum += element\n    } \n return sum\n}\n\n/**\n * Returns the sum of all
elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Iterable<Int>.sum(): Int {\n    var
sum: Int = 0\n    for (element in this) {\n        sum += element\n    } \n return sum\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun
Iterable<Long>.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    } \n
return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Iterable<Float>.sum(): Float {\n    var sum: Float = 0.0f\n
for (element in this) {\n        sum += element\n    } \n return sum\n}\n\n/**\n * Returns the sum of all elements in
the collection.\n */\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Iterable<Double>.sum(): Double {\n    var
sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    } \n return sum\n}\n\n", "/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\nimport
kotlin.comparisons.naturalOrder\nimport kotlin.random.Random\n\n/**\n * Returns the array if it's not `null`, or an
empty array otherwise.\n */\n@sample samples.collections.Arrays.Usage.arrayOrEmpty\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?:
emptyArray<T>()\n\n/**\n * Returns a *typed* array containing all of the elements of this collection.\n */\n\n *
Allocates an array of runtime type `T` having its size equal to the size of this collection\n * and populates the array
with the elements of this collection.\n */\n@sample
samples.collections.Collections.Collections.collectionToTypedArray\n */\n@kotlin.internal.InlineOnly\npublic
actual inline fun <T> Collection<T>.toArray(): Array<T> =
copyToArray(this)\n\n@JsName("copyToArray")\n@PublishedApi\ninternal fun <T> copyToArray(collection:
Collection<T>): Array<T> {\n    return if (collection.asDynamic().toArray !== undefined)\n        collection.asDynamic().toArray().unsafeCast<Array<T>>()\n
    else\n        copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName("copyToArrayImpl")\ninternal actual fun
copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n    val array = emptyArray<Any?>()\n    val iterator
= collection.iterator()\n    while (iterator.hasNext())\n        array.asDynamic().push(iterator.next())\n    return
array\n}\n\n@JsName("copyToExistingArrayImpl")\ninternal actual fun <T> copyToArrayImpl(collection:
Collection<*>, array: Array<T>): Array<T> {\n    if (array.size < collection.size)\n        return
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n    val iterator = collection.iterator()\n    var index = 0\n
while (iterator.hasNext()) {\n        array[index++] = iterator.next().unsafeCast<T>()\n    } \n    if (index < array.size)

```

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{\n    array[index] = null.unsafeCast<T>()\n } \n    return array\n}\n\n/**\n * Returns an immutable list
containing only the specified object [element].\n */\npublic fun <T> listOf(element:
T): List<T> =
arrayListOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual
inline fun <E> buildListInternal(builderAction: MutableList<E>().->Unit): List<E> {\n    return
ArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.Inlin
eOnly\ninternal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().->Unit):
List<E> {\n    checkBuilderCapacity(capacity)\n    return
ArrayList<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns an immutable set containing only the
specified object [element].\n */\npublic fun <T> setOf(element: T): Set<T> =
hashSetOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual inline
fun <E> buildSetInternal(builderAction: MutableSet<E>().->Unit): Set<E> {\n    return
LinkedHashSet<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.
InlineOnly\ninternal
actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().->Unit): Set<E> {\n    return
LinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns an immutable map, mapping
only the specified key to the\n * specified value.\n */\npublic fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> =
hashMapOf(pair)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual inline
fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n    return
LinkedHashMap<K,
V>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninte
rnal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().->Unit):
Map<K, V> {\n    return LinkedHashMap<K, V>(capacity).apply(builderAction).build()\n}\n\n/**\n * Fills the
list with the provided [value].\n */\n * Each element in the list gets replaced
with the [value].\n */\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\n    for
(index in 0..lastIndex) {\n        this[index] = value\n    }\n}\n\n/**\n * Randomly shuffles elements in this list.\n */\n * See: https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n */\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n * Returns a new list with the elements of this list randomly shuffled.\n */\n@SinceKotlin("1.2")\npublic actual fun
<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n/**\n * Sorts elements in the list in-
place according to their natural sort order.\n */\n * The sort is _stable_. It means that equal elements preserve their
order relative to each other after sorting.\n */\n * @sample samples.collections.Collections.Sorting.sortMutableList\n */\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {\n    collectionsSort(this,
naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-place according to the order specified with
[comparator].\n */\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\n * @sample samples.collections.Collections.Sorting.sortMutableListWith\n */\npublic actual fun
<T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n    collectionsSort(this,
comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\n    if
(list.size <= 1) return\n\n    val array = copyToArray(list)\n    sortArrayWith(array, comparator)\n\n    for (i in 0 until
array.size) {\n        list[i] = array[i]\n    }\n}\n\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int):
Array<T> {\n    return
arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@JsName("arrayCopy")\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in
T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {\n    AbstractList.checkRangeIndexes(startIndex,
endIndex, source.size)\n    val rangeSize = endIndex - startIndex\n
AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)\n\n    if
(js("ArrayBuffer").isView(destination) && js("ArrayBuffer").isView(source)) {\n        val subrange =
source.asDynamic().subarray(startIndex, endIndex)\n        destination.asDynamic().set(subrange,

```

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destinationOffset)\n } else {\n     if (source !== destination || destinationOffset <= startIndex) {\n         for
(index in 0 until rangeSize) {\n             destination[destinationOffset + index] = source[startIndex + index]\n
}\n     } else {\n         for (index in rangeSize - 1 downTo 0) {\n             destination[destinationOffset + index] =
source[startIndex + index]\n         }\n     }\n }\n\n// no singleton map implementation in js, return map as
is\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline
fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> =
this.toMutableMap()\n\n\n@Suppress(\\"NOTHING_TO_INLINE\\")\ninternal actual inline fun <T> Array<out
T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n    if (isVarargs)\n        // no need to copy vararg
array in JS\n        this\n    else\n        this.copyOf()\n\n\n@PublishedApi\ninternal actual fun
checkIndexOverflow(index: Int): Int {\n    if (index < 0) {\n        throwIndexOverflow()\n    }\n    return
index\n}\n\n\n@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {\n    if (count < 0) {\n
throwCountOverflow()\n    }\n    return count\n}\n\n\n/**\n * JS map and set implementations do not make use of
capacities or load factors.\n */\n@PublishedApi\ninternal actual fun mapCapacity(expectedSize: Int) =
expectedSize\n\n/**\n * Checks a collection builder function capacity argument.\n * In JS no validation is made in Map/Set constructor
yet.\n */\n@SinceKotlin(\\"1.3\\")\n@PublishedApi\ninternal fun checkBuilderCapacity(capacity: Int) {\n    require(capacity >= 0) { \"capacity must be non-negative.\" }\n}\n\n\ninternal actual fun
brittleContainsOptimizationEnabled(): Boolean = false\", \"*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n\n\n*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\\"CollectionsKt\\")\n\n\npackage
kotlin.collections\n\n\n/**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
loop.\n * @sample samples.collections.Iterators.iterator\n */\n@kotlin.internal.InlineOnly\npublic inline operator
fun <T> Iterator<T>.iterator(): Iterator<T> = this\n\n\n/**\n * Returns an [Iterator]
that wraps each element produced by the original iterator\n * into an [IndexedValue] containing the index of that
element and the element itself.\n */\n@sample samples.collections.Iterators.withIndexIterator\n */\npublic fun
<T> Iterator<T>.withIndex(): Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n\n/**\n * Performs the given
[operation] on each element of this [Iterator].\n */\n@sample samples.collections.Iterators.forEachIterator\n */\npublic
inline fun <T> Iterator<T>.forEach(operation: (T) -> Unit): Unit {\n    for (element in this)
operation(element)\n}\n\n\n/**\n * Iterator transforming original `iterator` into iterator of [IndexedValue], counting
index from zero.\n */\n\ninternal class IndexingIterator<out T>(private val iterator: Iterator<T>) :
Iterator<IndexedValue<T>> {\n    private var index = 0\n    final override fun hasNext(): Boolean =
iterator.hasNext()\n    final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++),
iterator.next())\n}\n\n\n\", \"*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n\n*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\\"ComparisonsKt\\")\n\n\npackage
kotlin.comparisons\n\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.random.*\n\n\n/**\n * Returns the
greater of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\\"1.1\\")\npublic expect
fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte):
Byte\n\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Short, b: Short):
Short\n\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\\"1.1\\")\n@kotlin.internal.InlineOnly\npublic expect inline

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fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`,
returns `NaN`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float,
b: Float): Float\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double):
Double\n\n/**\n * Returns the greater of three values.\n * \n * If there are multiple equal maximal values, returns the
first of them.\n */\n@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T, c: T):
T\n\n/**\n * Returns the greater
of three values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte,
b: Byte, c: Byte): Byte\n\n/**\n * Returns the greater of three values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c:
Short): Short\n\n/**\n * Returns the greater of three values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int):
Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the greater of three values.\n * \n * If
any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline
fun maxOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the greater of three values.\n * \n * If any value is
`NaN`, returns `NaN`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the greater of three values
according to the order specified by the given [comparator].\n * \n * If there are multiple equal maximal values,
returns the first of them.\n */\n@SinceKotlin("1.1")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator:
Comparator<in T>): T {\n    return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the
greater of two values according to the order specified by the given [comparator].\n * \n * If values are equal, returns
the first one.\n */\n@SinceKotlin("1.1")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n
    return if (comparator.compare(a, b) >= 0) a else b\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If
there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin("1.4")\npublic expect fun
<T : Comparable<T>> maxOf(a: T, vararg other: T): T\n\n/**\n
* Returns the greater of the given values.\n */\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Byte, vararg
other: Byte): Byte\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin("1.4")\npublic expect
fun maxOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the greater of the given values.\n
*/\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Int, vararg other: Int): Int\n\n/**\n * Returns the greater of
the given values.\n */\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Long, vararg other: Long):
Long\n\n/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*/\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Float, vararg other: Float): Float\n\n/**\n * Returns the
greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic
expect fun maxOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns the greater of the given values
according
to the order specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first
of them.\n */\n@SinceKotlin("1.4")\npublic fun <T> maxOf(a: T, vararg other: T, comparator: Comparator<in
T>): T {\n    var max = a\n    for (e in other) if (comparator.compare(max, e) < 0) max = e\n    return
max\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If values are equal, returns the first one.\n
*/\n@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n/**\n * Returns the
smaller of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a:
Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short):
Short\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int):
Int\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n * \n * If either

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value is `NaN`, returns `NaN`.
 * Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect inline fun
 minOf(a: Float, b: Float): Float
 /**
  * Returns the smaller of two values.
  *
  * If either value is `NaN`,
  returns `NaN`.
 * Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect inline fun minOf(a:
 Double, b: Double): Double
 /**
  * Returns the smaller of three values.
  *
  * If there are multiple equal
  minimal values, returns the first of them.
 * Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect fun <T : Comparable<T>>
 minOf(a: T, b: T, c: T): T
 /**
  * Returns the smaller of three values.
 *
 @ Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect inline fun minOf(a: Byte, b: Byte, c: Byte):
 Byte
 /**
  * Returns
  the smaller of three values.
 * Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect inline fun
 minOf(a: Short, b: Short, c: Short): Short
 /**
  * Returns the smaller of three values.
 *
 @ Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect inline fun minOf(a: Int, b: Int, c: Int):
 Int
 /**
  * Returns the smaller of three values.
 *
 @ Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect inline fun minOf(a: Long, b: Long, c: Long):
 Long
 /**
  * Returns the smaller of three values.
  *
  * If any value is `NaN`, returns `NaN`.
 * Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect inline
 fun minOf(a: Float, b: Float, c: Float): Float
 /**
  * Returns the smaller of three values.
  *
  * If any value is
  `NaN`, returns `NaN`.
 * Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public expect inline fun minOf(a:
 Double, b: Double, c: Double): Double
 /**
  * Returns the smaller of three values according to
  the order specified by the given [comparator].
  *
  * If there are multiple equal minimal values, returns the first of
  them.
 * Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {
  return minOf(a, minOf(b, c, comparator), comparator)
 }
 /**
  * Returns the smaller of two values according to
  the order specified by the given [comparator].
  *
  * If values are equal, returns the first one.
 * Since Kotlin("1.1")
 @kotlin.internal.InlineOnly
 public fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {
  return if
  (comparator.compare(a, b) <= 0) a else b
 }
 /**
  * Returns the smaller of the given values.
  *
  * If there are
  multiple equal minimal values, returns the first of them.
 * Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public expect fun <T :
 Comparable<T>> minOf(a: T, vararg other: T): T
 /**
  * Returns the smaller of the given values.
  *
  * If there are
  multiple equal minimal values, returns the first of them.
 * Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public expect fun minOf(a: Byte, vararg other: Byte): Byte
 /**
  * Returns the
  smaller
  of the given values.
 * Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public expect fun minOf(a: Short, vararg other: Short):
 Short
 /**
  * Returns the smaller of the given values.
 *
 @ Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public expect fun minOf(a:
 Int, vararg other: Int): Int
 /**
  * Returns the smaller of the given values.
  *
  * If there are multiple equal minimal values, returns the first of them.
 * Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public expect fun minOf(a: Long, vararg other: Long): Long
 /**
  * Returns the smaller of the given values.
  *
  * If any value is `NaN`, returns `NaN`.
 * Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public expect fun minOf(a: Float, vararg other:
 Float): Float
 /**
  * Returns the smaller of the given values.
  *
  * If any value is `NaN`, returns `NaN`.
 * Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public expect fun minOf(a: Double, vararg other: Double): Double
 /**
  * Returns
  the smaller of the given values according to the order specified by the given [comparator].
  *
  * If there are
  multiple equal minimal values, returns the first of them.
 * Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public
 fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in T>): T {
  var min = a
  for (e in other) if
  (comparator.compare(min, e) > 0) min = e
  return min
 }
 * Copyright 2010-2021 JetBrains s.r.o. and
 Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that
 can be found in the license/LICENSE.txt file.
 *
 @file: kotlin.jvm.JvmMultifileClass
 @file: kotlin.jvm.JvmName("MapsKt")
 package
 kotlin.collections
 // NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
 // See:
 https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
 //
 import kotlin.random.*
 import
 kotlin.ranges.contains
 import kotlin.ranges.reversed
 /**
  * Returns the first non-null value produced by
 [transform] function being applied to entries of this map in iteration order,
 * or throws
 [NoSuchElementException] if no non-null value was produced.
 *
 @sample
 samples.collections.Collections.Transformations.firstNotNullOf

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*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K,
V>.firstNotNullOf(transform: (Map.Entry<K, V>) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the map was transformed to a non-null value.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n *
or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K,
V>.firstNotNullOfOrNull(transform: (Map.Entry<K, V>) -> R?): R? {\n    for (element in this) {\n        val result =
transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n *
Returns a [List] containing all key-value pairs.\n *^@public
fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n    if (size == 0)\n        return emptyList()\n    val iterator
= entries.iterator()\n    if (!iterator.hasNext())\n        return emptyList()\n    val first = iterator.next()\n    if
(!iterator.hasNext())\n        return listOf(first.toPair())\n    val result = ArrayList<Pair<K, V>>(size)\n    result.add(first.toPair())\n    do {\n        result.add(iterator.next().toPair())\n    } while (iterator.hasNext())\n    return
result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked
on each entry of original map.\n * \n * @sample samples.collections.Maps.Transformations.flatMap\n *^@public
inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n    return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of
[transform] function being invoked on each entry of original
map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
entry of original map, to the given [destination].\n *^@public inline fun <K, V, R, C : MutableCollection<in R>>
Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n    for (element in
this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n *
Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to
the given [destination].\n
*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <K, V, R, C :
MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) ->
Sequence<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n
    }\n    return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapToList\n *^@public inline fun <K, V, R> Map<out K,
V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapNotNull\n
*^@public inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?):
List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform]
function to each entry in the original map\n * and appends only the non-null results to the given [destination].\n
*^@public inline fun <K, V, R : Any, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C,
transform: (Map.Entry<K, V>) -> R?): C {\n    forEach { element -> transform(element)?.let { destination.add(it) }
}\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n *
and appends the results to the given [destination].\n *^@public inline fun <K, V, R, C : MutableCollection<in R>>
Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n    for (item in this)\n

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destination.add(transform(item))\n    return destination\n}\n\n/**\n * Returns `true` if all
entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n * \npublic
inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty())
return true\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if
map has at least one entry.\n * \n * @sample samples.collections.Collections.Aggregates.any\n * \npublic fun <K,
V> Map<out K, V>.any(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches
the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n * \npublic
inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty())
return false\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the
number of entries in this map.\n * \n@kotlin.internal.InlineOnly\npublic inline fun
<K, V> Map<out K, V>.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of entries matching the
given [predicate].\n * \npublic inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean):
Int {\n    if (isEmpty()) return 0\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return
count\n}\n\n/**\n * Performs the given [action] on each entry.\n * \n@kotlin.internal.HidesMembers\npublic inline
fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {\n    for (element in this)
action(element)\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>>
Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the
largest value of the given function or `null` if there are no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return
entries.maxByOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values
produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOf(selector: (Map.Entry<K, V>) -> R): R {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or
`null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n    return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]

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function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun
<K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n  return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n  return entries.maxOfOrNull(selector)\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K,
V, R> Map<out K, V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n
return entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there
are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n  return
entries.maxOfWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use maxWithOrNull instead.",
ReplaceWith("this.maxWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxWith(comparator: Comparator<in Map.Entry<K,
V>>): Map.Entry<K, V>? {\n  return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first entry having the
largest value according to the provided [comparator] or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n  return
entries.maxWithOrNull(comparator)\n}\n\n@Deprecated("Use minByOrNull instead.",
ReplaceWith("this.minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector:
(Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n  return minByOrNull(selector)\n}\n\n/**\n * Returns the first
entry yielding the smallest value of the given function or `null` if there are no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V, R : Comparable<R>> Map<out K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R):
Map.Entry<K, V>? {\n  return entries.minByOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is
empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n  return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if
there are no entries.\n * \n * If any
of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n    return
entries.minOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n    return
entries.minOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.minOrNull(selector)\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return
entries.minWith(comparator, selector)\n}\n\n/**\n * Returns
the smallest value according to the provided [comparator]\n * among all values produced by [selector] function
applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n    return
entries.minWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in
Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first
entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> Map<out K, V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>):
Map.Entry<K, V>? {\n    return entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no
entries.\n * \n * @sample samples.collections.Collections.Aggregates.none\n *\npublic fun <K, V> Map<out K,
V>.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n *
\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun <K, V>
Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return true\n    for
(element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each

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entry and returns the map itself afterwards.\n */\n@SinceKotlin("1.1")\npublic inline fun <K, V, M : Map<out K,
V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n
    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each entry,
providing sequential index with the entry,\n * and returns the map itself afterwards.\n * @param [action] function
that takes the index of an entry and the entry itself\n * and performs the action on the entry.\n
*/\n@SinceKotlin("1.4")\npublic inline fun <K, V, M : Map<out K, V>> M.onEachIndexed(action: (index: Int,
Map.Entry<K, V>) -> Unit): M {\n    return apply { entries.forEachIndexed(action) }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original map returning its entries when being iterated.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K,
V>> {\n    return entries\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original map returning its entries
when being iterated.\n */\npublic fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {\n
return entries.asSequence()\n}\n\n"/*\n
* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n// 10 mappings totally\n\ninternal fun
Char.titlecaseImpl(): String {\n    val uppercase = uppercase()\n    if (uppercase.length > 1) {\n        return if (this ==
'\u0149') uppercase else uppercase[0] + uppercase.substring(1).lowercase()\n    }\n    return
titlecaseChar().toString()\n}\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Converts this character to lower case using Unicode
mapping rules
of the invariant locale.\n */\n@Deprecated("Use lowercaseChar() instead.",
ReplaceWith("lowercaseChar()"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toLowerCase(): Char =
lowercaseChar()\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant
locale.\n * This function performs one-to-one character mapping.\n * To support one-to-many character
mapping use the [lowercase] function.\n * If this character has no mapping equivalent, the character itself is
returned.\n * @sample samples.text.Chars.lowercase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.toLowerCaseChar(): Char = lowercase()[0]\n\n/**\n * Converts this character to lower case
using Unicode mapping rules of the invariant locale.\n * This function supports one-to-many character mapping,
thus the length of the returned string
can be greater than one.\n * For example, `'\u0130'.toLowerCase()` returns `'\u0069\u0307'`,\n * where `'\u0130`
is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\u0130`).\n * If this character has no lower
case mapping, the result of `toString()` of this char is returned.\n * @sample samples.text.Chars.lowercase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.toLowerCase(): String = toString().asDynamic().toLowerCase().unsafeCast<String>()\n\n/**\n
* Converts this character to upper case using Unicode mapping rules of the invariant locale.\n
*/\n@Deprecated("Use uppercaseChar() instead.",
ReplaceWith("uppercaseChar()"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toUpperCase(): Char =
uppercaseChar()\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant
locale.\n * This
function performs one-to-one character mapping.\n * To support one-to-many character mapping use the
[uppercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n * @sample
samples.text.Chars.uppercase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun

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Char.uppercaseChar(): Char {
    val uppercase = uppercase()
    return if (uppercase.length > 1) this else
    uppercase[0]
}

/* Converts this character to upper case using Unicode mapping rules of the invariant locale.
 * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.
 * For example, `'\uFB00'.uppercase()` returns `'\u0046\u0046'`, where `'\uFB00` is the LATIN SMALL LIGATURE FF character (`\ufb00`)).
 * If this character has no upper case mapping, the result of `toString()` of this char is returned.
 * @sample samples.text.Chars.uppercase
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public actual inline fun Char.uppercase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()

/* Converts this character to title case using Unicode mapping rules of the invariant locale.
 * This function performs one-to-one character mapping.
 * To support one-to-many character mapping use the [titlecase] function.
 * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.
 * @sample samples.text.Chars.titlecase
 */
@SinceKotlin("1.5")
public actual fun Char.titlecaseChar(): Char = titlecaseCharImpl()

/* Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).
 */
@public actual fun Char.isHighSurrogate(): Boolean = this in Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE

/* Returns `true` if this character is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).
 */
@public actual fun Char.isLowSurrogate(): Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE

/* Returns the Unicode general category of this character.
 */
@SinceKotlin("1.5")
@public actual val Char.category: CharCategory
    get() = CharCategory.valueOf(getCategoryValue())

/* Returns `true` if this character (Unicode code point) is defined in Unicode.
 * A character is considered to be defined in Unicode if its [category] is not [CharCategory.UNASSIGNED].
 */
@SinceKotlin("1.5")
@public actual fun Char.isDefined(): Boolean {
    if (this < '\u0080') {
        return true
    }
    return getCategoryValue() != CharCategory.UNASSIGNED.value
}

/* Returns `true` if this character is a letter.
 * A character is considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER], [CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER], [CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].
 * @sample samples.text.Chars.isLetter
 */
@SinceKotlin("1.5")
@public actual fun Char.isLetter(): Boolean {
    if (this in 'a'..'z' || this in 'A'..'Z') {
        return true
    }
    if (this < '\u0080') {
        return false
    }
    return isLetterImpl()
}

/* Returns `true` if this character is a letter or digit.
 * @see isLetter
 * @see isDigit
 * @sample samples.text.Chars.isLetterOrDigit
 */
@SinceKotlin("1.5")
@public actual fun Char.isLetterOrDigit(): Boolean {
    if (this in 'a'..'z' || this in 'A'..'Z' || this in '0'..'9') {
        return true
    }
    if (this < '\u0080') {
        return false
    }
    return isDigitImpl() || isLetterImpl()
}

/* Returns `true` if this character is a digit.
 * A character is considered to be a digit if its [category] is [CharCategory.DECIMAL_DIGIT_NUMBER].
 * @sample samples.text.Chars.isDigit
 */
@SinceKotlin("1.5")
@public actual fun Char.isDigit(): Boolean {
    if (this in '0'..'9') {
        return true
    }
    if (this < '\u0080') {
        return false
    }
    return isDigitImpl()
}

/* Returns `true` if this character is upper case.
 * A character is considered to be an upper case character if its [category] is [CharCategory.UPPERCASE_LETTER], or it has contributory property Other_Uppercase as defined by the Unicode Standard.
 * @sample samples.text.Chars.isUpperCase
 */
@SinceKotlin("1.5")
@public actual fun Char.isUpperCase(): Boolean {
    if (this in 'A'..'Z') {
        return true
    }
    if (this < '\u0080') {
        return false
    }
    return isUpperCaseImpl()
}

/* Returns `true` if this character is lower case.
 * A character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER], or it has contributory property Other_Lowercase as defined by the Unicode Standard.
 * @sample samples.text.Chars.isLowerCase
 */
@SinceKotlin("1.5")
@public actual fun Char.isLowerCase(): Boolean {
    if (this in 'a'..'z') {
        return true
    }
    if (this < '\u0080') {
        return
    }

```



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false\n } \n return isLowerCaseImpl()\n}\n\n/**\n * Returns `true` if this character is a title case letter.\n *\n * A character is considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n *\n * @sample samples.text.Chars.isTitleCase\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isTitleCase(): Boolean {\n if (this < "\u0080") {\n return false\n }\n return getCategoryValue() == CharCategory.TITLECASE_LETTER.value\n}\n\n/**\n * Returns `true` if this character is an ISO control character.\n *\n * A character is considered to be an ISO control character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range `'\u0000'..' \u001F'` or in the range `'\u007F'..' \u009F'`.\n *\n * @sample samples.text.Chars.isISOControl\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isISOControl(): Boolean {\n return this <= "\u001F" || this in "\u007F'..' \u009F'\n}\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n *\n * @sample samples.text.Chars.isWhitespace\n *\npublic actual fun Char.isWhitespace(): Boolean = isWhitespaceImpl()", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@package kotlin.text\nimport kotlin.js.RegExp\n\n/**\n * Converts the characters in the specified array to a string.\n *\n@SinceKotlin("1.2")\n@Deprecated("Use CharArray.concatToString() instead", ReplaceWith("chars.concatToString()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")\npublic actual fun String(chars: CharArray): String {\n var result = ""\n for (char in chars) {\n result += char\n }\n return result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a string.\n *\n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset + length` is out of [chars] array bounds.\n *\n@SinceKotlin("1.2")\n@Deprecated("Use CharArray.concatToString(startIndex, endIndex) instead", ReplaceWith("chars.concatToString(offset, offset + length)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")\npublic actual fun String(chars: CharArray, offset: Int, length: Int): String {\n if (offset < 0 || length < 0 || chars.size - offset < length)\n throw IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")\n var result = ""\n for (index in offset until offset + length) {\n result += chars[index]\n }\n return result\n}\n\n/**\n * Concatenates characters in this [CharArray] into a String.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun CharArray.concatToString(): String {\n var result = ""\n for (char in this) {\n result += char\n }\n return result\n}\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.\n *\n * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n *\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n var result = ""\n for (index in startIndex until endIndex) {\n result += this[index]\n }\n return result\n}\n\n/**\n * Returns a [CharArray] containing characters of this string.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun String.toCharArray(): CharArray {\n return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray] containing characters of this string or its substring.\n *\n * @param startIndex the beginning (inclusive) of the substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\n *\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")

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ON_WITH_DEFAULT_ARGUMENTS`)npublic
    actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)n    return CharArray(endIndex - startIndex) {
get(startIndex + it) }n}n/n/**n * Decodes a string from the bytes in UTF-8 encoding in this array.n *n *
Malformed byte sequences are replaced by the replacement char `\\uFFFF`.n
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic actual fun
ByteArray.decodeToString(): String {n    return decodeUtf8(this, 0, size, false)n}n/n/**n * Decodes a string from
the bytes in UTF-8 encoding in this array or its subrange.n *n * @param startIndex the beginning (inclusive) of the
subrange to decode, 0 by default.n * @param endIndex the end (exclusive) of the subrange to decode, size of this
array by default.n * @param throwOnInvalidSequence specifies whether to
    throw an exception on malformed byte sequence or replace it by the replacement char `\\uFFFF`.n *n * @throws
IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.n *
@throws IllegalArgumentException if [startIndex] is greater than [endIndex].n * @throws
CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and
[throwOnInvalidSequence] is true.n
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)n@Suppress("ACTUAL_FUNCTI
ON_WITH_DEFAULT_ARGUMENTS`)npublic actual fun ByteArray.decodeToString(n    startIndex: Int = 0,n
endIndex: Int = this.size,n    throwOnInvalidSequence: Boolean = false)n): String {n
AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)n    return decodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)n}n/n/**n * Encodes this string to an array of bytes in UTF-8 encoding.n *n * Any
malformed char sequence is replaced by
    the replacement byte sequence.n
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic actual fun
String.encodeToByteArray(): ByteArray {n    return encodeUtf8(this, 0, length, false)n}n/n/**n * Encodes this
string or its substring to an array of bytes in UTF-8 encoding.n *n * @param startIndex the beginning (inclusive)
of the substring to encode, 0 by default.n * @param endIndex the end (exclusive) of the substring to encode, length
of this string by default.n * @param throwOnInvalidSequence specifies whether to throw an exception on
malformed char sequence or replace.n *n * @throws IndexOutOfBoundsException if [startIndex] is less than zero
or [endIndex] is greater than the length of this string.n * @throws IllegalArgumentException if [startIndex] is
greater than [endIndex].n * @throws CharacterCodingException if this string contains malformed char sequence
and [throwOnInvalidSequence] is true.n
*/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)n@Suppress("ACTUAL_FUNCTI
ON_WITH_DEFAULT_ARGUMENTS`)npublic
    actual fun String.encodeToByteArray(n    startIndex: Int = 0,n    endIndex: Int = this.length,n
    throwOnInvalidSequence: Boolean = false)n): ByteArray {n    AbstractList.checkBoundsIndexes(startIndex,
endIndex, length)n    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)n}n/n/**n * Returns
a copy of this string converted to upper case using the rules of the default locale.n */n@Deprecated("Use
uppercase() instead.", ReplaceWith("uppercase()"))n@DeprecatedSinceKotlin(warningSince =
"1.5")n@kotlin.internal.InlineOnlynpublic actual inline fun String.toUpperCase(): String =
asDynamic().toUpperCase()n/n/**n * Returns a copy of this string converted to upper case using Unicode mapping
rules of the invariant locale.n *n * This function supports one-to-many and many-to-one character mapping,n *
thus the length of the returned string can be different from the length
    of the original string.n *n * @sample samples.text.Strings.uppercase)n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalStdlibApi::class)n@kotlin.internal.InlineOnlynpubli
c actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()n/n/**n * Returns a copy of this string
converted to lower case using the rules of the default locale.n */n@Deprecated("Use lowercase() instead.",
ReplaceWith("lowercase()"))n@DeprecatedSinceKotlin(warningSince =
"1.5")n@kotlin.internal.InlineOnlynpublic actual inline fun String.toLowerCase(): String =

```

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asDynamic().toLowerCase()\n\n/**\n * Returns a copy of this string converted to lower case using Unicode
mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character
mapping,\n * thus the length of the returned string can be different from the length of the original string.\n *\n *
@sample samples.text.Strings.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
    actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal
actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,
fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(str: String,
fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal inline fun
String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s,
position)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeEndsWith(s: String): Boolean =
asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int):
String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun
String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,
endIndex)\n\n@Deprecated("Use String.plus() instead", ReplaceWith("this +
str"))\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
String.concat(str: String): String = asDynamic().concat(str)\n\n@Deprecated("Use Regex.findAll() instead or
invoke matches() on String dynamically:
this.asDynamic().match(regex)")\n@DeprecatedSinceKotlin(warningSince =
"1.6")\n@kotlin.internal.InlineOnly\npublic inline fun String.match(regex: String): Array<String>? =
asDynamic().match(regex)\n\n//native public fun String.trim(): String\n//TODO: String.replace to implement
effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal inline fun
String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern,
replacement)\n\n/**\n * Compares two strings lexicographically, optionally ignoring case differences.\n *\n * If
[ignoreCase] is true, the result of `Char.toUpperCaseChar().toLowerCaseChar()` on each character
is compared.\n
*/\n@SinceKotlin("1.2")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n    if (ignoreCase) {\n        val n1 =
this.length\n        val n2 = other.length\n        val min = minOf(n1, n2)\n        if (min == 0) return n1 - n2\n        for
(index in 0 until min) {\n            var thisChar = this[index]\n            var otherChar = other[index]\n\n            if
(thisChar != otherChar) {\n                thisChar = thisChar.toUpperCaseChar()\n                otherChar =
otherChar.toUpperCaseChar()\n\n                if (thisChar != otherChar) {\n                    thisChar =
thisChar.toLowerCaseChar()\n                    otherChar = otherChar.toLowerCaseChar()\n\n                    if (thisChar !=
otherChar) {\n                        return thisChar.compareTo(otherChar)\n                    }\n                }\n            }\n            return n1 - n2\n        } else {\n
return compareTo(other)\n        }\n}\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the
contents of the specified [other],\n * i.e. both char sequences contain the same number of the same characters in the
same order.\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin("1.5")\npublic actual infix
fun CharSequence?.contentEquals(other: CharSequence?): Boolean = contentEqualsImpl(other)\n\n/**\n * Returns
`true` if the contents of this char sequence are equal to the contents of the specified [other], optionally ignoring case
difference.\n *\n * @param ignoreCase `true` to ignore character case when comparing contents.\n *\n * @sample
samples.text.Strings.contentEquals\n */\n@SinceKotlin("1.5")\npublic actual fun
CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean {\n    return if (ignoreCase)\n        this.contentEqualsIgnoreCaseImpl(other)\n    else\n        this.contentEqualsImpl(other)\n}\n\nprivate
val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true)
}\n\n@SinceKotlin("1.2")\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER:
Comparator<String>\n    get() = STRING_CASE_INSENSITIVE_ORDER\n", "/*\n * Copyright 2010-2021

```

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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\nCharsKt\n")\n\npackage kotlin.text\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents.\n * Throws an exception if this Char is
not a valid decimal digit.\n *\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\n
*\n * In this case, the Unicode decimal digit value of the character is returned.\n *\n * @sample
samples.text.Chars.digitToInt\n
*\n\n@SinceKotlin("1.5\n")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic
fun Char.digitToInt(): Int {\n    return digitOf(this, 10).also {\n        if (it < 0) throw
IllegalArgumentException("\nChar $this is not a decimal digit\n")\n    }\n}\n\n/**\n * Returns the numeric value of the
digit that this Char represents in the specified [radix].\n * Throws an exception if the [radix] is not in the range
`2..36` or if this Char is not a valid digit in the specified [radix].\n *\n * A Char is considered to represent a digit in
the specified [radix] if at least one of the following is true:\n * - [isDigit] is `true` for the Char and the Unicode
decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is
returned.\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix +
'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n * - The Char is one of the lowercase Latin
letters 'a' through 'z' and its [code] is less than `radix
+ 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n * - The Char is one of the fullwidth Latin
capital letters '\n\uFF21' through '\n\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code -
0xFF21 + 10` is returned.\n * - The Char is one of the fullwidth Latin small letters '\n\uFF41' through '\n\uFF5A' and
its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *\n * @sample
samples.text.Chars.digitToInt\n
*\n\n@SinceKotlin("1.5\n")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic fun Char.digitToInt(radix:
Int): Int {\n    return digitToIntOrNull(radix) ?: throw IllegalArgumentException("\nChar $this is not a digit in the
given radix=$radix\n")\n}\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents, or
`null` if this Char is not a valid decimal digit.\n *\n * A Char is considered to represent a decimal digit if [isDigit] is
true for the Char.\n *\n * In
this case, the Unicode decimal digit value of the character is returned.\n *\n * @sample
samples.text.Chars.digitToIntOrNull\n
*\n\n@SinceKotlin("1.5\n")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic fun
Char.digitToIntOrNull(): Int? {\n    return digitOf(this, 10).takeIf { it >= 0 }\n}\n\n/**\n * Returns the numeric
value of the digit that this Char represents in the specified [radix], or `null` if this Char is not a valid digit in the
specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36`. \n *\n * A Char is considered to
represent a digit in the specified [radix] if at least one of the following is true:\n * - [isDigit] is `true` for the Char
and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit
value is returned.\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix
+ 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is
returned.\n * - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix +
'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n * - The Char is one of the fullwidth Latin capital
letters '\n\uFF21' through '\n\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21
+ 10` is returned.\n * - The Char is one of the fullwidth Latin small letters '\n\uFF41' through '\n\uFF5A' and its [code]
is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *\n * @sample
samples.text.Chars.digitToIntOrNull\n
*\n\n@SinceKotlin("1.5\n")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic fun
Char.digitToIntOrNull(radix: Int): Int? {\n    checkRadix(radix)\n    return digitOf(this, radix).takeIf { it >= 0
}\n}\n\n/**\n * Returns the Char that represents this decimal digit.\n * Throws an exception if this value is not in the
range `0..9`. \n *\n * If this value is in `0..9`,

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the decimal digit Char with code `0'.code + this` is returned.\n * \n * @sample samples.text.Chars.digitToChar\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(): Char\n
{\n if (this in 0..9) {\n return '0' + this\n }\n throw IllegalArgumentException("Int $this is not a decimal\n
digit")\n}\n\n/**\n * Returns the Char that represents this numeric digit value in the specified [radix].\n * Throws\n
an exception if the [radix] is not in the range `2..36` or if this value is not in the range `0` until radix`.\n * \n * If this\n
value is less than `10`, the decimal digit Char with code `0'.code + this` is returned.\n * Otherwise, the uppercase\n
Latin letter with code `A'.code + this - 10` is returned.\n * \n * @sample samples.text.Chars.digitToChar\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(radix:\n
Int): Char {\n if (radix !in 2..36) {\n throw IllegalArgumentException("Invalid\n
radix: $radix. Valid radix values are in range 2..36")\n }\n if (this < 0 || this >= radix) {\n throw\n
IllegalArgumentException("Digit $this does not represent a valid digit in radix $radix")\n }\n return if (this <\n
10) {\n '0' + this\n } else {\n 'A' + this - 10\n }\n}\n\n/**\n * Converts this character to lower case using\n
Unicode mapping rules of the invariant locale.\n * \n *@Deprecated("Use lowercaseChar() instead."),\n
ReplaceWith("lowercaseChar()")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun\n
Char.toLowerCase(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the\n
invariant locale.\n * \n * This function performs one-to-one character mapping.\n * To support one-to-many\n
character mapping use the [lowercase] function.\n * If this character has no mapping equivalent, the character itself\n
is returned.\n * \n * @sample samples.text.Chars.lowercase\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic\n
expect fun Char.lowercaseChar(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping\n
rules of the invariant locale.\n * \n * This function supports one-to-many character mapping, thus the length of the\n
returned string can be greater than one.\n * For example, `'\u0130'.lowercase()` returns `'\u0069\u0307'`,\n * \n * where `'\u0130` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\ufffd\u0130`).\n * If this\n
character has no lower case mapping, the result of `toString()` of this char is returned.\n * \n * @sample\n
samples.text.Chars.lowercase\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun\n
Char.lowercase(): String\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the\n
invariant locale.\n * \n *@Deprecated("Use uppercaseChar() instead."),\n
ReplaceWith("uppercaseChar()")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic\n
expect fun Char.toUpperCase(): Char\n\n/**\n * Converts this character to upper case using Unicode mapping rules\n
of the invariant locale.\n * \n * This function performs one-to-one character mapping.\n * To support one-to-many\n
character mapping use the [uppercase] function.\n * If this character has no mapping equivalent, the character itself\n
is returned.\n * \n * @sample samples.text.Chars.uppercase\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun\n
Char.uppercaseChar(): Char\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the\n
invariant locale.\n * \n * This function supports one-to-many character mapping, thus the length of the returned\n
string can be greater than one.\n * For example, `'\uFB00'.uppercase()` returns `'\u0046\u0046'`,\n * \n * where `'\uFB00` is the LATIN SMALL LIGATURE FF character (`\ufffd\u0046`).\n * If this\n
character has no upper case mapping, the result of `toString()` of this char\n
is returned.\n * \n * @sample samples.text.Chars.uppercase\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun\n
Char.uppercase(): String\n\n/**\n * Converts this character to title case using Unicode mapping rules of the\n
invariant locale.\n * \n * This function performs one-to-one character mapping.\n * To support one-to-many\n
character mapping use the [titlecase] function.\n * If this character has no mapping equivalent, the result of calling\n
[uppercaseChar] is returned.\n * \n * @sample samples.text.Chars.titlecase\n
*\n@SinceKotlin("1.5")\npublic\n
expect fun Char.titlecaseChar(): Char\n\n/**\n * Converts this character to title case using Unicode mapping rules\n
of the invariant locale.\n * \n * This function supports one-to-many character mapping, thus the length of the returned\n
string can be greater than one.\n * For example, `'\uFB00'.titlecase()` returns `'\u0046\u0066'`,\n * \n * where

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`“\uFB00”` is the LATIN SMALL LIGATURE FF character  
(`\ufffd\uuffd\uuffd`).  
If this character has no title case mapping, the result of `[uppercase]` is returned instead.  
@sample samples.text.Chars.titlecase  
@SinceKotlin("1.5")\npublic fun Char.titlecase(): String = titlecaseImpl()  
Concatenates this Char and a String.  
@sample samples.text.Chars.plus  
@kotlin.internal.InlineOnly\npublic inline operator fun Char.plus(other: String): String = this.toString() + other  
Returns `true` if this character is equal to the `[other]` character, optionally ignoring character case.  
Two characters are considered equal ignoring case if `Char.uppercaseChar().lowercaseChar()` on each character produces the same result.  
@param ignoreCase `true` to ignore character case when comparing characters. By default `false`.  
@sample samples.text.Chars.equals  
\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {  
if (this == other) return true  
if (!ignoreCase)  
return false  
val thisUpper = this.uppercaseChar()  
val otherUpper = other.uppercaseChar()  
return thisUpper == otherUpper || thisUpper.lowercaseChar() == otherUpper.lowercaseChar()  
}
Returns `true` if this character is a Unicode surrogate code unit.  
\npublic fun Char.isSurrogate(): Boolean = this in Char.MIN\_SURROGATE..Char.MAX\_SURROGATE  
Returns the Unicode general category of this character.  
@SinceKotlin("1.5")\npublic expect val Char.category: CharCategory  
Returns `true` if this character (Unicode code point) is defined in Unicode.  
A character is considered to be defined in Unicode if its `[category]` is not `[CharCategory.UNASSIGNED]`.  
@SinceKotlin("1.5")\npublic expect fun Char.isDefined(): Boolean  
Returns `true` if this character is a letter.  
A character is considered to be a letter if its `[category]` is `[CharCategory.UPPERCASE_LETTER]`, `[CharCategory.LOWERCASE_LETTER]`, `[CharCategory.TITLECASE_LETTER]`, `[CharCategory.MODIFIER_LETTER]`, or `[CharCategory.OTHER_LETTER]`.  
@sample samples.text.Chars.isLetter  
@SinceKotlin("1.5")\npublic expect fun Char.isLetter(): Boolean  
Returns `true` if this character is a letter or digit.  
@see isLetter  
@see isDigit  
@sample samples.text.Chars.isLetterOrDigit  
@SinceKotlin("1.5")\npublic expect fun Char.isLetterOrDigit(): Boolean  
Returns `true` if this character is a digit.  
A character is considered to be a digit if its `[category]` is `[CharCategory.DECIMAL_DIGIT_NUMBER]`.  
@sample samples.text.Chars.isDigit  
@SinceKotlin("1.5")\npublic expect fun Char.isDigit(): Boolean  
Returns `true` if this character is upper case.  
A character is considered to be an upper case character if its `[category]` is `[CharCategory.UPPERCASE_LETTER]`, or it has contributory property `Other_Uppercase` as defined by the Unicode Standard.  
@sample samples.text.Chars.isUpperCase  
@SinceKotlin("1.5")\npublic expect fun Char.isUpperCase(): Boolean  
Returns `true` if this character is lower case.  
A character is considered to be a lower case character if its `[category]` is `[CharCategory.LOWERCASE_LETTER]`, or it has contributory property `Other_Lowercase` as defined by the Unicode Standard.  
@sample samples.text.Chars.isLowerCase  
@SinceKotlin("1.5")\npublic expect fun Char.isLowerCase(): Boolean  
Returns `true` if this character is a title case letter.  
A character is considered to be a title case letter if its `[category]` is `[CharCategory.TITLECASE_LETTER]`.  
@sample samples.text.Chars.isTitleCase  
@SinceKotlin("1.5")\npublic expect fun Char.isTitleCase(): Boolean  
Returns `true` if this character is an ISO control character.  
A character is considered to be an ISO control character if its `[category]` is `[CharCategory.CONTROL]`, meaning the Char is in the range `“\u0000”..“\u001F”` or in the range `“\u007F”..“\u009F”`.  
@sample samples.text.Chars.isISOControl  
@SinceKotlin("1.5")\npublic expect fun Char.isISOControl(): Boolean  
Determines whether a character is whitespace according to the Unicode standard.  
Returns `true` if the character is whitespace.  
@sample samples.text.Chars.isWhitespace  
\npublic expect fun Char.isWhitespace(): Boolean

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\npackage kotlin  
Creates a Char with the specified `[code]`, or throws an exception if the `[code]` is out of `Char.MIN_VALUE.code`..`Char.MAX_VALUE.code`.  
If the program that calls this function is written in a way that only valid `[code]` is passed as the argument, using the overload that takes a `[UShort]` argument is

preferable

```
(Char(intValue.toUShort()))).\n * That overload doesn't check validity of the argument, and may improve program performance when the function is called routinely inside a loop.\n * \n * @sample samples.text.Chars.charFromCode\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Char(code: Int): Char {\n    if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {\n        throw IllegalArgumentException("Invalid Char code: $code")\n    }\n    return code.toChar()\n}\n\n/**\n * Creates a Char with the specified [code].\n * \n * @sample samples.text.Chars.charFromCode\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect fun Char(code: UShort): Char\n\n/**\n * Returns the code of this Char.\n * \n * Code of a Char is the value it was constructed with, and the UTF-16 code unit corresponding to this Char.\n * \n * @sample samples.text.Chars.code\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION")\npublic inline val Char.code: Int get() = this.toInt()\n\n/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
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*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage kotlin.sequences\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n * \n * The operation is _terminal_.\n * \n * @kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws
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an [IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n * \n * @kotlin.internal.OnlyInputTypes T> Sequence<T>.elementAt(index: Int): T {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at index $index.") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this sequence.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n * \n * @kotlin.internal.OnlyInputTypes T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (index < 0)\n        return defaultValue(index)\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return defaultValue(index)\n}\n\n/**\n
```

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* Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n * \n * @kotlin.internal.OnlyInputTypes T> Sequence<T>.elementAtOrNull(index: Int): T? {\n    if (index < 0)\n        return null\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.find\n * \n * @kotlin.internal.InlineOnly\n * \n * @kotlin.internal.OnlyInputTypes T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element
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was found.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.find\n * \n * @kotlin.internal.InlineOnly\n * \n * @kotlin.internal.OnlyInputTypes T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * \n * @throws [NoSuchElementException] if the sequence is empty.\n * \n * The operation is _terminal_.\n * \n * @kotlin.internal.OnlyInputTypes T> Sequence<T>.first(): T {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n    return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * \n * @throws
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[NoSuchElementException] if no such element is found.\n * \n * The operation is _terminal_.\n * \n\npublic inline fun
<T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n  for (element in this) if (predicate(element)) return
element\n  throw NoSuchElementException("Sequence contains no element matching the predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in
iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * The operation
is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*\n*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Sequence<T>.firstNotNullOf(transform: (T) -> R?): R {\n  return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the sequence was transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in
iteration order,\n * or `null` if no non-null value was produced.\n * \n * The operation is _terminal_.\n * \n *
@\n*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R : Any> Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n  for (element in this)
{\n    val result = transform(element)\n    if (result != null) {\n      return result\n    }\n  }\n  return
null\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n * \n * The operation is _terminal_.\n
*\n*\n@public fun <T> Sequence<T>.firstOrNull(): T? {\n  val iterator = iterator()\n  if (!iterator.hasNext())\n  return null\n  return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null`
if element was not found.\n * \n * The operation is _terminal_.\n * \n\npublic inline fun <T>
Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n  for (element in this) if (predicate(element)) return
element\n  return null\n}\n\n/**\n * Returns first index of [element], or -1 if the sequence does not contain
element.\n * \n * The operation is _terminal_.\n * \n\npublic fun <@kotlin.internal.OnlyInputTypes
T> Sequence<T>.indexOf(element: T): Int {\n  var index = 0\n  for (item in this) {\n
  checkIndexOverflow(index)\n  if (element == item)\n    return index\n    index++\n  }\n  return -
1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does not
contain such element.\n * \n * The operation is _terminal_.\n * \n\npublic inline fun <T>
Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n  var index = 0\n  for (item in this) {\n
  checkIndexOverflow(index)\n  if (predicate(item))\n    return index\n    index++\n  }\n  return -
1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not
contain such element.\n * \n * The operation is _terminal_.\n * \n\npublic inline fun <T>
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n  var lastIndex = -1\n  var index = 0\n  for (item in
this) {\n
  checkIndexOverflow(index)\n  if (predicate(item))\n    lastIndex = index\n    index++\n  }\n  return
lastIndex\n}\n\n/**\n * Returns the last element.\n * \n * The operation is _terminal_.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\n*\n@public fun <T> Sequence<T>.last(): T {\n  val iterator =
iterator()\n  if (!iterator.hasNext())\n    throw NoSuchElementException("Sequence is empty.")\n  var last =
iterator.next()\n  while (iterator.hasNext())\n    last = iterator.next()\n  return last\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * The operation is _terminal_.\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\n*\n@public inline fun <T> Sequence<T>.last(predicate: (T) ->
Boolean): T {\n  var last: T? = null\n  var found = false\n  for (element
in this) {\n    if (predicate(element)) {\n      last = element\n      found = true\n    }\n  }\n  if (!found)
throw NoSuchElementException("Sequence contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the
sequence does not contain element.\n * \n * The operation is _terminal_.\n * \n\npublic fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n  var lastIndex = -1\n  var
index = 0\n  for (item in this) {\n    checkIndexOverflow(index)\n    if (element == item)\n      lastIndex =

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index\n    index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is
empty.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.last\n
*\n\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return null\n    var last = iterator.next()\n    while (iterator.hasNext())\n        last = iterator.next()\n    return
last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.last\n *\n\npublic
inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? = null\n    for (element in
this) {\n        if (predicate(element)) {\n            last = element\n        }\n    }\n    return last\n}\n\n/**\n * Returns the
single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation
is _terminal_.\n *\n\npublic fun <T> Sequence<T>.single(): T {\n    val iterator = iterator()\n    if
(!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n    val single =
iterator.next()\n    if (iterator.hasNext())\n        throw
IllegalArgumentException("Sequence has more than one element.")\n    return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n *\n * The operation is _terminal_.\n *\n\npublic inline fun <T> Sequence<T>.single(predicate: (T) ->
Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            if (found) throw IllegalArgumentException("Sequence contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Sequence
contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as
T\n}\n\n/**\n * Returns single element, or `null` if the sequence is empty or has more than one element.\n *\n * The
operation is _terminal_.\n *\n\npublic fun <T> Sequence<T>.singleOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return null\n    val single = iterator.next()\n    if
(iterator.hasNext())\n        return null\n    return single\n}\n\n/**\n * Returns the single element matching the given
[predicate], or `null` if element was not found or more than one element was found.\n *\n * The operation is
_intermediate_.\n *\n\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single:
T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return
null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The operation is
_intermediate_ and _stateless_.\n *\n * @throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.drop\n *\n\npublic
fun <T> Sequence<T>.drop(n: Int): Sequence<T> {\n    require(n >= 0) { "Requested element count $n is less than
zero." }\n    return when {\n        n == 0 -> this\n        this is DropTakeSequence -> this.drop(n)\n        else ->
DropSequence(this, n)\n    }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that
satisfy the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.drop\n *\n\npublic fun <T> Sequence<T>.dropWhile(predicate: (T)
-> Boolean): Sequence<T> {\n    return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence
containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n
*\n * @sample samples.collections.Collections.Filtering.filter\n *\n\npublic fun <T> Sequence<T>.filter(predicate:
(T) -> Boolean): Sequence<T> {\n    return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence
containing only elements matching the given [predicate].\n *\n * @param [predicate] function
that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the
element.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIndexed\n *\n\npublic fun <T> Sequence<T>.filterIndexed(predicate:
(index: Int, T) -> Boolean): Sequence<T> {\n    // TODO: Rewrite with generalized MapFilterIndexingSequence\n    return
TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), {
it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n *\n * The operation is _terminal_.\n *\n * @sample

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samples.collections.Collections.Filtering.filterIndexedTo
*/npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate:
(index: Int, T) -> Boolean): C { \n  forEachIndexed { index, element -> \n    if (predicate(index, element))
destination.add(element)\n  } \n  return destination\n}\n\n/** \n * Returns a sequence containing all elements that
are instances of specified type parameter R. \n * \n * The operation is _intermediate_ and _stateless_. \n * \n *
@sample samples.collections.Collections.Filtering.filterIsInstance \n */npublic inline fun <reified R>
Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> { \n
@Suppress("\nUNCHECKED_CAST") \n  return filter { it is R } as Sequence<R>\n}\n\n/** \n * Appends all
elements that are instances of specified type parameter R to the given [destination]. \n * \n * The operation is
_terminal_. \n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo \n */npublic inline fun
<reified
R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C { \n  for (element in this) if
(element is R) destination.add(element)\n  return destination\n}\n\n/** \n * Returns a sequence containing all
elements not matching the given [predicate]. \n * \n * The operation is _intermediate_ and _stateless_. \n * \n *
@sample samples.collections.Collections.Filtering.filter \n */npublic fun <T> Sequence<T>.filterNot(predicate: (T)
-> Boolean): Sequence<T> { \n  return FilteringSequence(this, false, predicate)\n}\n\n/** \n * Returns a sequence
containing all elements that are not `null`. \n * \n * The operation is _intermediate_ and _stateless_. \n * \n *
@sample samples.collections.Collections.Filtering.filterNotNull \n */npublic fun <T : Any> Sequence<T?>.filterNotNull():
Sequence<T> { \n  @Suppress("\nUNCHECKED_CAST") \n  return filterNot { it == null } as
Sequence<T>\n}\n\n/** \n * Appends all elements that are not `null` to the given [destination]. \n * \n * The operation
is _terminal_. \n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo \n */npublic fun <C :
MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C { \n  for (element in this) if
(element != null) destination.add(element)\n  return destination\n}\n\n/** \n * Appends all elements not matching
the given [predicate] to the given [destination]. \n * \n * The operation is _terminal_. \n * \n * @sample
samples.collections.Collections.Filtering.filterTo \n */npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C { \n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/** \n * Appends all elements matching
the given [predicate] to the given [destination]. \n * \n * The operation is _terminal_. \n * \n * @sample
samples.collections.Collections.Filtering.filterTo \n */npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterTo(destination:
C, predicate: (T) -> Boolean): C { \n  for (element in this) if (predicate(element)) destination.add(element)\n
return destination\n}\n\n/** \n * Returns a sequence containing first [n] elements. \n * \n * The operation is
_intermediate_ and _stateless_. \n * \n * @throws IllegalArgumentException if [n] is negative. \n * \n * @sample
samples.collections.Collections.Transformations.take \n */npublic fun <T> Sequence<T>.take(n: Int): Sequence<T>
{ \n  require(n >= 0) { "\nRequested element count $n is less than zero." } \n  return when { \n    n == 0 ->
emptySequence()\n    this is DropTakeSequence -> this.take(n)\n    else -> TakeSequence(this, n)\n  }\n}\n\n/** \n * Returns a sequence containing first elements satisfying the given [predicate]. \n * \n * The operation
is _intermediate_ and _stateless_. \n * \n * @sample samples.collections.Collections.Transformations.take \n */npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> { \n
return TakeWhileSequence(this, predicate)\n}\n\n/** \n * Returns a sequence that yields elements of this sequence
sorted according to their natural sort order. \n * \n * The sort is _stable_. It means that equal elements preserve their
order relative to each other after sorting. \n * \n * The operation is _intermediate_ and _stateful_. \n */npublic fun <T
: Comparable<T>> Sequence<T>.sorted(): Sequence<T> { \n  return object : Sequence<T> { \n    override fun
iterator(): Iterator<T> { \n      val sortedList = this@sorted.toMutableList()\n      sortedList.sort()\n      return sortedList.iterator()\n    } \n  }\n}\n\n/** \n * Returns a sequence that yields elements of this sequence
sorted according to natural sort order of the value returned by specified [selector] function. \n * \n * The sort is
_stable_. It means that equal elements preserve their order relative to each other after sorting. \n * \n * The operation
is _intermediate_ and _stateful_. \n * \n * @sample

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samples.collections.Collections.Sorting.sortedBy\n *\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted
descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is
_stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation
is _intermediate_ and _stateful_.\n *\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n  return
sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence
sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n *\n * The
operation is _intermediate_ and _stateful_.\n *\npublic fun <T : Comparable<T>>
Sequence<T>.sortedDescending(): Sequence<T> {\n  return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a
sequence that yields elements of this sequence sorted according to the specified [comparator].\n * \n * The sort is
_stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation
is _intermediate_ and _stateful_.\n *\npublic fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>):
Sequence<T> {\n  return object : Sequence<T> {\n    override fun iterator(): Iterator<T> {\n      val
sortedList = this@sortedWith.toMutableList()\n      sortedList.sortWith(comparator)\n      return
sortedList.iterator()\n    }\n  }\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform]
function\n * applied to elements of the given sequence.\n * \n * If any of two pairs would have the same key the last
one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n *
The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Transformations.associate\n
*\npublic inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n  return
associateTo(LinkedHashMap<K, V>(), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the
given sequence indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n *\n *
@sample samples.collections.Collections.Transformations.associateBy\n *\npublic inline fun <T, K>
Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n  return associateByTo(LinkedHashMap<K,
T>(),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to elements of the given sequence.\n * \n * If any two elements would have the same
key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.associateByWithValueTransform\n *\npublic inline fun <T, K, V>
Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n  return
associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to
each element of the given sequence\n * and value is the element itself.\n * \n * If any two elements would have the
same key returned
by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.associateByTo\n *\npublic inline fun <T, K, M : MutableMap<in
K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n  for (element in this) {\n
destination.put(keySelector(element), element)\n  }\n  return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and
value is provided by the [valueTransform] function applied to elements of the given sequence.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n *\n * The
operation is _terminal_.\n *\n * @sample

```

```

samples.collections.Collections.Transformations.associateByToWithValueTransform\n *\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination:
M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateTo\n *\npublic inline fun <T, K, V, M : MutableMap<in
K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this)
{\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are
elements from the given sequence and values are\n * produced by the [valueSelector] function applied to each
element.\n * \n * If any two
elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order
of the original sequence.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n *\n@SinceKotlin("1.3")\npublic inline fun <K,
V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K,
V>()\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs for each element of the given sequence,\n * where key is the element itself and value is
provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one
overwrites the former value in the map.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n *\n@SinceKotlin("1.3")\npublic inline fun
<K, V, M : MutableMap<in K, in V>>
Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all elements to
the given [destination] collection.\n * \n * The operation is _terminal_.\n *\npublic fun <T, C :
MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n * \n * The
operation is _terminal_.\n *\npublic fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n return
toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n * \n * The operation is
_terminal_.\n *\npublic fun <T> Sequence<T>.toList(): List<T> {\n return
this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this sequence.\n * \n * The operation is _terminal_.\n
*\npublic fun <T> Sequence<T>.toMutableList(): MutableList<T> {\n return
toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the
element iteration order of the original sequence.\n * \n * The operation is _terminal_.\n *\npublic fun <T>
Sequence<T>.toSet(): Set<T> {\n return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n *
Returns a single sequence of all elements from results of [transform] function being invoked on each element of
original sequence.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterable")\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform]
function being invoked on each element of
original sequence.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n *\npublic fun <T, R> Sequence<T>.flatMap(transform:
(T) -> Sequence<R>): Sequence<R> {\n return FlatteningSequence(this, transform,
Sequence<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of [transform]

```

```

function being invoked on each element\n * and its index in the original sequence.\n *\n * The operation is
_intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int,
T) -> Iterable<R>): Sequence<R> {\n    return flatMapIndexed(this, transform, Iterable<R>::iterator)\n}\n\n**\n *
Returns a single sequence of all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {\n    return
flatMapIndexed(this, transform, Sequence<R>::iterator)\n}\n\n**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence, to the given
[destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npub
lic inline fun <T, R, C : MutableCollection<in R>>
Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {\n    var index =
0\n    for (element in this) {\n        val list = transform(checkIndexOverflow(index++), element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original sequence, to the given [destination].\n *\n * The
operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterableTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n**\n * Appends all elements yielded from results of [transform] function being invoked
on each element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n *\npublic
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) ->
Sequence<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n
}\n    return destination\n}\n\n**\n * Groups elements of the original sequence by the key returned by the given
[keySelector] function\n * applied to each element and returns a map where each group key is associated with a list
of corresponding elements.\n *\n * The returned map preserves the entry iteration order of the keys produced from
the original sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.groupBy\n *\npublic inline fun <T, K>
Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n    return groupByTo(LinkedHashMap<K,
MutableList<T>>(), keySelector)\n}\n\n**\n

```

\* Groups values returned by the [valueTransform] function applied to each element of the original sequence\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original sequence.\n \* \n \* The operation is \_terminal\_.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n public inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n \n /\*\*\n \* Groups elements of the original sequence by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* The operation is \_terminal\_.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n }\n \n /\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original sequence\n \* by the key returned by the given [keySelector] function applied to the element\n \* and puts to the [destination] map each group key associated with a list of corresponding values.\n \* \n \* @return The [destination] map.\n \* \n \* The operation is \_terminal\_.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n }\n \n /\*\*\n \* Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations\n \* using the specified [keySelector] function to extract a key from each element.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Grouping.groupingByEachCount\n \* \n @SinceKotlin("1.1")\n public inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n }\n \n /\*\*\n \* Returns a sequence containing the results of applying the given [transform] function\n \* to each element in the original sequence.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Collections.Transformations.map\n \* \n public fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n return TransformingSequence(this, transform)\n }\n \n /\*\*\n \* Returns a sequence containing the results of applying the given [transform] function\n \* to each element and its index in the original sequence.\n \* \n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n public fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n return TransformingIndexedSequence(this, transform)\n }\n \n /\*\*\n \* Returns a sequence containing only the non-null results of applying the given [transform] function\n \* to each element and its index in the original sequence.\n \* \n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n public fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n return TransformingIndexedSequence(this, transform).filterNotNull()\n }\n \n /\*\*\n \* Applies the given [transform] function to each element and its index in the original sequence\n \* and appends only the non-null results to the given [destination].\n \* \n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \* \n \* The operation is \_terminal\_.\n \* \n public inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index:

```

Int, T) -> R?): C {
  forEachIndexed { index, element -> transform(index, element)?.let
  { destination.add(it) } }
  return destination
}

```

Applies the given [transform] function to each element and its index in the original sequence and appends the results to the given [destination]. @param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element. The operation is `_terminal_`.

```

public inline fun <T, R, C : MutableCollection<in R>>
Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
  var index = 0
  for (item in this)
    destination.add(transform(checkIndexOverflow(index++), item))
  return destination
}

```

Returns a sequence containing only the non-null results of applying the given [transform] function to each element in the original sequence. The operation is `_intermediate_` and `_stateless_`. @sample samples.collections.Collections.Transformations.mapNotNull

```

public
fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {
  return
  TransformingSequence(this, transform).filterNotNull()
}

```

Applies the given [transform] function to each element in the original sequence and appends only the non-null results to the given [destination]. The operation is `_terminal_`.

```

public inline fun <T, R : Any, C : MutableCollection<in R>>
Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {
  forEach { element ->
  transform(element)?.let { destination.add(it) } }
  return destination
}

```

Applies the given [transform] function to each element of the original sequence and appends the results to the given [destination]. The operation is `_terminal_`.

```

public inline fun <T, R, C : MutableCollection<in R>>
Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {
  for (item in this)
  destination.add(transform(item))
  return destination
}

```

Returns a sequence that wraps each element of the original sequence into an [IndexedValue] containing the index of that element and the element itself. The operation is `_intermediate_` and `_stateless_`.

```

public fun <T>
Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {
  return IndexingSequence(this)
}

```

Returns a sequence containing only distinct elements from the given sequence. Among equal elements of the given sequence, only the first one will be present in the resulting sequence. The elements in the resulting sequence are in the same order as they were in the source sequence. The operation is `_intermediate_` and `_stateful_`. @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

```

public
fun <T> Sequence<T>.distinct(): Sequence<T> {
  return this.distinctBy { it }
}

```

Returns a sequence containing only elements from the given sequence having distinct keys returned by the given [selector] function.

Among elements of the given sequence with equal keys, only the first one will be present in the resulting sequence. The elements in the resulting sequence are in the same order as they were in the source sequence. The operation is `_intermediate_` and `_stateful_`. @sample samples.collections.Collections.Transformations.distinctAndDistinctBy

```

public fun <T, K>
Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {
  return DistinctSequence(this, selector)
}

```

Returns a new [MutableSet] containing all distinct elements from the given sequence. The returned set preserves the element iteration order of the original sequence. The operation is `_terminal_`.

```

public fun
<T> Sequence<T>.toMutableSet(): MutableSet<T> {
  val set = LinkedHashSet<T>()
  for (item in this)
  set.add(item)
  return set
}

```

Returns `true` if all elements match the given [predicate]. The operation is `_terminal_`.

```

@sample samples.collections.Collections.Aggregates.all
public inline fun <T>
Sequence<T>.all(predicate: (T) -> Boolean): Boolean {
  for (element in this) if (!predicate(element)) return
  false
  return true
}

```

Returns `true` if sequence has at least one element. The operation is `_terminal_`. @sample samples.collections.Collections.Aggregates.any

```

public inline fun <T>
Sequence<T>.any(): Boolean {
  return iterator().hasNext()
}

```

Returns `true` if at least one element matches the given [predicate]. The operation is `_terminal_`. @sample samples.collections.Collections.Aggregates.anyWithPredicate

```

public inline fun <T>
Sequence<T>.any(predicate: (T) -> Boolean): Boolean {
  for (element in this) if (predicate(element)) return

```

```

true\n    return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n *\n * The operation is
_terminal_.\n */\npublic fun <T> Sequence<T>.count(): Int {\n    var count =
0\n    for (element in this) checkCountOverflow(++count)\n    return count\n}\n\n/**\n * Returns the number of
elements matching the given [predicate].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.count(predicate: (T) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) checkCountOverflow(++count)\n    return count\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n *\n * to current accumulator value and each element.\n *\n * Returns the specified [initial] value if the sequence is empty.\n *\n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n
*/\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var accumulator =
initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n
 * Accumulates value starting with [initial] value and applying [operation] from left to right\n *\n * to current
accumulator value and each element with its index in the original sequence.\n *\n * Returns the specified [initial]
value if the sequence is empty.\n *\n * @param [operation] function that takes the index of an element, current
accumulator value\n *\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is
_terminal_.\n */\npublic inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) ->
R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator =
operation(checkIndexOverflow(index++), accumulator, element)\n    return accumulator\n}\n\n/**\n * Performs the
given [action] on each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.forEach(action: (T) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n
 * Performs the given [action] on each element, providing sequential index with the element.\n *\n * @param [action]
function that takes the index of an element and the element itself\n *\n * and performs the action on the element.\n
*\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) ->
Unit): Unit {\n    var index = 0\n    for (item in this) action(checkIndexOverflow(index++),
item)\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Sequence<Double>.max(): Double? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Sequence<Float>.max(): Float? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull
instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n    return
maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) ->
R): T? {\n    return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the
given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var maxValue = selector(maxElem)\n    do {\n        val e =
iterator.next()\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while (iterator.hasNext())\n    return maxElem\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n *\n * applied to each element in the sequence.\n *\n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n *\n * @throws NoSuchElementException if the
sequence is empty.\n *\n * The operation is _terminal_.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```



```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->
Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n * \n * The
operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->
Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var
maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the
sequence.\n * \n * @throws NoSuchElementException if the sequence is empty.\n * \n * The operation is
_terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v
= selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector:
(T) -> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is
_terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n
val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * The operation is
_terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext())\n        {\n            val v = selector(iterator.next())\n            if (maxValue < v) {\n
                maxValue = v\n            }\n        }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>

```

```

Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var max = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(max, v) < 0) {
            max = v
        }
    }
    return max
}

```

\* Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.  
The operation is `_terminal_`.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Sequence<T>.maxOfOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(max, v) < 0) {
            max = v
        }
    }
    return max
}

```

\* Returns the largest element or `null` if there are no elements.  
\* If any of elements is `NaN` returns `NaN`.  
\* The operation is `_terminal_`.

```

@SinceKotlin("1.4")
public fun Sequence<Double>.maxOrNull(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return max
}

```

\* Returns the largest element or `null` if there are no elements.  
\* If any of elements is `NaN` returns `NaN`.  
\* The operation is `_terminal_`.

```

@SinceKotlin("1.4")
public fun Sequence<Float>.maxOrNull(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return max
}

```

\* Returns the largest element or `null` if there are no elements.  
\* The operation is `_terminal_`.

```

@SinceKotlin("1.4")
public fun <T : Comparable<T>> Sequence<T>.maxOrNull(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

```

`@Deprecated("Use maxWithOrNull instead.")`, `ReplaceWith("this.maxWithOrNull(comparator)")`  
`@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")`  
`public fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {`  
`return maxWithOrNull(comparator)`  
`}`  
\* Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.  
\* The operation is `_terminal_`.

```

@SinceKotlin("1.4")
public fun <T> Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

```

`@Deprecated("Use minOrNull instead.")`, `ReplaceWith("this.minOrNull()")`  
`@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")`  
`@SinceKotlin("1.1")`  
`public fun Sequence<Double>.min(): Double? {`  
`return minOrNull()`  
`}`  
`@Deprecated("Use minOrNull instead.")`, `ReplaceWith("this.minOrNull()")`  
`@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")`  
`@SinceKotlin("1.1")`  
`public fun Sequence<Float>.min(): Float? {`  
`return minOrNull()`  
`}`  
`@Deprecated("Use minOrNull instead.")`, `ReplaceWith("this.minOrNull()")`  
`@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")`  
`public fun <T : Comparable<T>> Sequence<T>.min(): T? {`  
`return minOrNull()`  
`}`  
`@Deprecated("Use minByOrNull instead.")`, `ReplaceWith("this.minByOrNull(selector)")`  
`@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")`  
`public inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {`  
`return minByOrNull(selector)`  
`}`  
\* Returns the first element yielding the smallest value of the given function or `null` if there are no elements.  
\* The operation is `_terminal_`.  
\* `@sample`  
`samples.collections.Collections.Aggregates.minByOrNull`  
`@SinceKotlin("1.4")`  
`public inline fun <T, R :`

```
Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minElem = iterator.next()
    if (!iterator.hasNext()) return minElem
    var minValue = selector(minElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    } while (iterator.hasNext())
    return minElem
}
```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the sequence.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the sequence is empty.  
 \* The operation is `_terminal_`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) -> Double): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the sequence.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* @throws NoSuchElementException if the sequence is empty.  
 \* The operation is `_terminal_`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) -> Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the sequence.  
 \* @throws NoSuchElementException if the sequence is empty.  
 \* The operation is `_terminal_`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* The operation is `_terminal_`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.  
 \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.  
 \* The operation is `_terminal_`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector: (T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}
```

\* Returns the smallest value among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.  
 \* The operation is `_terminal_`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
```

```

Sequence<T>.minOfOrNull(selector: (T) -> R): R? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return\n  null\n  var minValue = selector(iterator.next())\n  while (iterator.hasNext()) {\n    val v =\n    selector(iterator.next())\n    if (minValue > v) {\n      minValue = v\n    }\n  }\n  return\n  minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the sequence.\n * \n * @throws\n * NoSuchElementException if the sequence is empty.\n * \n * The\n * operation is _terminal_.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>\nSequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n  val iterator = iterator()\n  if\n  (!iterator.hasNext()) throw NoSuchElementException()\n  var minValue = selector(iterator.next())\n  while\n  (iterator.hasNext()) {\n    val v = selector(iterator.next())\n    if (comparator.compare(minValue, v) > 0) {\n     \n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the\n * provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence\n * or `null` if there are no elements.\n * \n * The operation is _terminal_.\n\n*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\ninline fun <T, R> Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n  val\n  iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var\n  minValue = selector(iterator.next())\n  while\n  (iterator.hasNext()) {\n    val v = selector(iterator.next())\n    if (comparator.compare(minValue, v) > 0) {\n     \n      minValue = v\n    }\n  }\n  return\n  minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are\n * no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n\n*/\n\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.minOrNull(): Double? {\n  val\n  iterator = iterator()\n  if\n  (!iterator.hasNext()) return null\n  var\n  min = iterator.next()\n  while (iterator.hasNext()) {\n    val e =\n    iterator.next()\n    min =\n    minOf(min, e)\n  }\n  return\n  min\n}\n\n/**\n * Returns the smallest element or `null` if\n * there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n\n*/\n\n@SinceKotlin("1.4")\npublic fun Sequence<Float>.minOrNull(): Float? {\n  val\n  iterator = iterator()\n  if\n  (!iterator.hasNext()) return null\n  var\n  min = iterator.next()\n  while (iterator.hasNext()) {\n    val e =\n    iterator.next()\n    min =\n    minOf(min, e)\n  }\n  return\n  min\n}\n\n/**\n * Returns the smallest element or `null` if\n * there are no elements.\n * \n * The operation is _terminal_.\n\n*/\n\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Sequence<T>.minOrNull(): T? {\n  val\n  iterator = iterator()\n  if\n  (!iterator.hasNext()) return\n  null\n  var\n  min = iterator.next()\n  while (iterator.hasNext()) {\n    val e =\n    iterator.next()\n    if (min > e) min\n    = e\n  }\n  return\n  min\n}\n\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n= "1.5", hiddenSince =\n"1.6")\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n  return\n  minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the\n * provided [comparator] or `null` if there are no elements.\n * \n * The operation is _terminal_.\n\n*/\n\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n  val\n  iterator = iterator()\n  if\n  (!iterator.hasNext()) return null\n  var\n  min = iterator.next()\n  while\n  (iterator.hasNext()) {\n    val e =\n    iterator.next()\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return\n  min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.none\n */\n\npublic fun <T> Sequence<T>.none(): Boolean {\n  return\n  !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * The\n * operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.noneWithPredicate\n */\n\npublic inline fun <T>\nSequence<T>.none(predicate: (T) -> Boolean): Boolean {\n  for\n  (element in this) if (predicate(element)) return

```

```

false\n    return true\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the
original sequence as they pass through it.\n *\n * The operation is _intermediate_ and _stateless_.\n
*\n@SinceKotlin("1.1")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {\n    return
map {\n        action(it)\n        it\n    }\n}\n\n/**\n * Returns a sequence which performs the given [action] on each
element of the original sequence as they pass through it.\n *\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n *\n * The operation is _intermediate_
and _stateless_.\n *\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.onEachIndexed(action: (index:
Int, T) -> Unit): Sequence<T> {\n    return mapIndexed { index, element ->\n        action(index, element)\n
element\n    }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n *\n * Throws an exception if this sequence is empty. If
the sequence can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its
receiver is empty.\n *\n * @param [operation] function that takes current accumulator value and an element,\n *
and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S, T : S>
Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext())
throw UnsupportedOperationException("Empty sequence can't be reduced.")\n    var accumulator: S =
iterator.next()\n
    while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original sequence.\n *\n * Throws an
exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use
[reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n *\n * @param [operation] function
that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next
accumulator value.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S, T : S>
Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if
(!iterator.hasNext()) throw UnsupportedOperationException("Empty
sequence can't be reduced.")\n    var index = 1\n    var accumulator: S = iterator.next()\n    while
(iterator.hasNext()) {\n        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n
    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element with its index in the original sequence.\n *\n *
Returns `null` if the sequence is empty.\n *\n * @param [operation] function that takes the index of an element,
current accumulator value and the element itself,\n * and calculates the next accumulator value.\n *\n * The
operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Sequence<T>.reduceIndexedOrNull(operation: (index: Int,
acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) return null\n
    var index = 1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n *\n * Returns `null` if the sequence is empty.\n *\n * @param [operation]
function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n *\n *
The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if
(!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n
        accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Returns a
sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each
element and current accumulator value that starts with [initial] value.\n *\n * Note that `acc` value passed to

```

[operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting sequence.\n \* The [initial] value should also be immutable (or should not be mutated)\n \* as it may be passed to [operation] function later because of sequence's lazy nature.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n \* @SinceKotlin("1.4")\n \* public fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R): Sequence<R>

```

{\n    return sequence {\n        yield(initial)\n        var accumulator = initial\n        for (element in this@runningFold)\n        {\n            accumulator = operation(accumulator, element)\n            yield(accumulator)\n        }\n    }\n}\n\n
```

Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original sequence and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting sequence.\n \* The [initial] value should also be immutable (or should not be mutated)\n \* as it may be passed to [operation] function later because of sequence's lazy nature.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \* \n \* @SinceKotlin("1.4")\n \* public fun <T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n return sequence {\n yield(initial)\n var index = 0\n var accumulator = initial\n for (element in this@runningFoldIndexed) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n yield(accumulator)\n }\n }\n}\n\n

Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this sequence.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting sequence.\n \* \n \* @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n \* @SinceKotlin("1.4")\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* public fun <S, T : S> Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {\n return sequence {\n val iterator = iterator()\n if (iterator.hasNext()) {\n var accumulator: S = iterator.next()\n yield(accumulator)\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n yield(accumulator)\n }\n }\n }\n}\n\n

Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original sequence and current accumulator value that starts with the first element of this sequence.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting sequence.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* The operation is \_intermediate\_ and \_stateless\_.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \* \n \* @SinceKotlin("1.4")\n \* public fun <S, T : S> Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {\n return sequence {\n val iterator = iterator()\n if (iterator.hasNext()) {\n var accumulator: S = iterator.next()\n yield(accumulator)\n var index = 1\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n yield(accumulator)\n }\n }\n }\n}\n\n

Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting sequence.\n \* The [initial] value should also be immutable (or should not be mutated)\n \* \n \*

as it may be passed to [operation] function later because of sequence's lazy nature.

```

    * @param [operation]
    function that takes current accumulator value and an element, and calculates the next accumulator value.
    operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Collections.Aggregates.scan
    * \n @SinceKotlin("1.4") \n @WasExperimental(ExperimentalStdlibApi::class) \n public fun <T, R>
    Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> { \n    return runningFold(initial,
    operation) \n } \n \n /** \n * Returns a sequence containing successive accumulation values generated by applying
    [operation] from left to right \n * to each element, its index in the original sequence and current accumulator value
    that starts with [initial] value. \n * \n * Note that `acc` value passed to [operation] function should not be mutated; \n
    * otherwise it would affect the previous value in resulting sequence. \n * The [initial] value should also be immutable
    (or should not be mutated) \n * as it may be passed to [operation] function later because of sequence's lazy nature. \n
    * \n * @param [operation] function that takes the index of an element, current accumulator value \n * and the
    element itself, and calculates the next accumulator value. \n * \n * The operation is _intermediate_ and _stateless_. \n
    * \n * @sample samples.collections.Collections.Aggregates.scan \n
    * \n @SinceKotlin("1.4") \n @WasExperimental(ExperimentalStdlibApi::class) \n public fun <T, R>
    Sequence<T>.scanIndexed(initial:
    R, operation: (index: Int, acc: R, T) -> R): Sequence<R> { \n    return runningFoldIndexed(initial,
    operation) \n } \n \n /** \n * Returns the sum of all values produced by [selector] function applied to each element in the
    sequence. \n * \n * The operation is _terminal_. \n * \n @Deprecated("Use sumOf instead.",
    ReplaceWith("this.sumOf(selector)")) \n @DeprecatedSinceKotlin(warningSince = "1.5") \n public inline fun <T>
    Sequence<T>.sumBy(selector: (T) -> Int): Int { \n    var sum: Int = 0 \n    for (element in this) { \n        sum +=
    selector(element) \n    } \n    return sum \n } \n \n /** \n * Returns the sum of all values produced by [selector] function
    applied to each element in the sequence. \n * \n * The operation is _terminal_. \n * \n @Deprecated("Use sumOf
    instead.", ReplaceWith("this.sumOf(selector)")) \n @DeprecatedSinceKotlin(warningSince = "1.5") \n public inline
    fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double { \n    var sum: Double = 0.0 \n    for (element
    in this) { \n
        sum += selector(element) \n    } \n    return sum \n } \n \n /** \n * Returns the sum of all values produced by
    [selector] function applied to each element in the sequence. \n * \n * The operation is _terminal_. \n
    * \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
    ByLambdaReturnType \n @kotlin.jvm.JvmName("sumOfDouble") \n @kotlin.internal.InlineOnly \n public inline fun
    <T> Sequence<T>.sumOf(selector: (T) -> Double): Double { \n    var sum: Double = 0.toDouble() \n    for (element
    in this) { \n        sum += selector(element) \n    } \n    return sum \n } \n \n /** \n * Returns the sum of all values produced
    by [selector] function applied to each element in the sequence. \n * \n * The operation is _terminal_. \n
    * \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
    ByLambdaReturnType \n @kotlin.jvm.JvmName("sumOfInt") \n @kotlin.internal.InlineOnly \n public inline fun <T>
    Sequence<T>.sumOf(selector:
    (T) -> Int): Int { \n    var sum: Int = 0.toInt() \n    for (element in this) { \n        sum += selector(element) \n    } \n
    return sum \n } \n \n /** \n * Returns the sum of all values produced by [selector] function applied to each element in
    the sequence. \n * \n * The operation is _terminal_. \n
    * \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
    ByLambdaReturnType \n @kotlin.jvm.JvmName("sumOfLong") \n @kotlin.internal.InlineOnly \n public inline fun
    <T> Sequence<T>.sumOf(selector: (T) -> Long): Long { \n    var sum: Long = 0.toLong() \n    for (element in this)
    { \n        sum += selector(element) \n    } \n    return sum \n } \n \n /** \n * Returns the sum of all values produced
    by [selector] function applied to each element in the sequence. \n * \n * The operation is _terminal_. \n
    * \n @SinceKotlin("1.5") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
    ByLambdaReturnType \n @kotlin.jvm.JvmName("sumOfUInt") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n
    @kotlin.internal.InlineOnly \n public
    inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt { \n    var sum: UInt = 0.toUInt() \n    for (element
    in this) { \n        sum += selector(element) \n    } \n    return sum \n } \n \n /** \n * Returns the sum of all values produced

```

by [selector] function applied to each element in the sequence.

\* The operation is `_terminal_`.

```

@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.sumOf(selector: (T) -> ULong):
    ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

```

\* Returns an original collection containing all the non-`null` elements, throwing an `IllegalArgumentException` if there are any `null` elements.

\* The operation is `_intermediate_` and `_stateless_`.

```

public fun <T : Any>
    Sequence<T?>.requireNonNulls(): Sequence<T> {
    return map { it ?: throw IllegalArgumentException("null element found in $this.") }
}

```

\* Splits this sequence into a sequence of lists each not exceeding the given [size].

\* The last list in the resulting sequence may have fewer elements than the given [size].

\* @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.

\* The operation is `_intermediate_` and `_stateful_`.

\* @sample samples.collections.Collections.Transformations.chunked

```

@SinceKotlin("1.2")
public fun <T>
    Sequence<T>.chunked(size: Int): Sequence<List<T>> {
    return windowed(size, size, partialWindows = true)
}

```

\* Splits this sequence into several lists each not exceeding the given [size] and applies the given [transform] function to an each.

\* @return sequence of results of the [transform] applied to an each list.

\* Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.

\* You should not store it or allow it to escape in some way, unless you made a snapshot of it.

\* The last list may have fewer elements than the given [size].

\* @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.

\* The operation is `_intermediate_` and `_stateful_`.

\* @sample samples.text.Strings.chunkedTransform

```

@SinceKotlin("1.2")
public fun <T, R>
    Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

```

\* Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].

\* The operation is `_intermediate_` and `_stateless_`.

```

public operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            var removed = false
            return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()
        }
    }
}

```

\* Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.

\* Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

\* Before Kotlin 1.6, the [elements] array may have been converted to a `HashSet` to speed up the operation, thus the elements were required to have a correct and stable implementation of `hashCode()` that didn't change between successive invocations.

\* On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

\* The operation is `_intermediate_` and `_stateful_`.

```

public operator fun <T>
    Sequence<T>.minus(elements: Array<out T>): Sequence<T> {
    if (elements.isEmpty()) return this
    return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.convertToSetForSetOperation()
            return this@minus.filterNot { it in other }.iterator()
        }
    }
}

```

\* Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.

\* Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

\* Before Kotlin 1.6, the [elements] collection may have been converted to a `HashSet` to speed up the operation, thus the elements were required to have a correct and stable implementation of `hashCode()` that didn't change between successive invocations.

\* On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

\* The operation is `_intermediate_` and `_stateful_`.

```

public operator fun <T>
    Sequence<T>.minus(elements:

```



```

Iterable<T>): Sequence<T> {\n    return object: Sequence<T> {\n        override fun iterator(): Iterator<T> {\n            val other = elements.convertToSetForSetOperation()\n            if (other.isEmpty())\n                return\n            this@minus.iterator()\n        } else\n            return this@minus.filterNot { it in other }.iterator()\n        }\n    }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the\n * given [elements] sequence.\n * \n * Note that the source sequence and the sequence\n * being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of\n * them between successive calls to `iterator` may affect the result.\n * \n * The operation is _intermediate_ for this\n * sequence and _terminal_ and _stateful_ for the [elements] sequence.\n * \n * Before Kotlin 1.6, the [elements]\n * sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to\n * have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * \n * On JVM, you can enable this behavior back with the system property\n * `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\n\npublic operator fun <T>\nSequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n    return object: Sequence<T> {\n        override fun\n        iterator(): Iterator<T> {\n            val other = elements.convertToSetForSetOperation()\n            if (other.isEmpty())\n                return\n            this@minus.iterator()\n        } else\n            return this@minus.filterNot { it in other }.iterator()\n        }\n    }\n}\n\n/**\n * Returns a\n * sequence containing all elements of the original sequence without the first occurrence of the given [element].\n * \n * The operation is _intermediate_ and _stateless_.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <T>\nSequence<T>.minusElement(element: T): Sequence<T> {\n    return minus(element)\n}\n\n/**\n * Splits the\n * original sequence into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * \n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Sequences.Transformations.partition\n */\n\npublic inline fun <T>\nSequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val\n    second = ArrayList<T>()\n    for (element in this) {\n        if (predicate(element))\n            {\n                first.add(element)\n            } else {\n                second.add(element)\n            }\n    }\n    return Pair(first,\n    second)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given\n * [element].\n * \n * The operation is _intermediate_ and _stateless_.\n */\n\npublic operator fun <T>\nSequence<T>.plus(element: T): Sequence<T> {\n    return sequenceOf(this,\n    sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and\n * then all elements of the given [elements] array.\n * \n * Note that the source sequence and the array being added are\n * iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between\n * successive calls to `iterator` may affect the result.\n * \n * The operation is _intermediate_ and _stateless_.\n */\n\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {\n    return\n    this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements]\n * collection.\n * \n * Note that the source sequence and the collection being added are iterated only when an `iterator`\n * is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect\n * the result.\n * \n * The operation is _intermediate_ and _stateless_.\n */\n\npublic operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {\n    return\n    sequenceOf(this, elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and\n * then all elements of the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being\n * added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them\n * between successive calls to `iterator` may affect the result.\n * \n * The operation is _intermediate_ and _stateless_.\n */\n\npublic operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {\n    return\n    sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of the original\n * sequence and then the given [element].\n * \n * The operation is _intermediate_ and _stateless_.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {\n    return\n    plus(element)\n}\n\n/**\n * Returns a sequence of snapshots\n * of the window of the given [size]\n * \n * sliding

```

along this sequence with the given [step], where each snapshot is a list. Several last lists may have fewer elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this sequence. @param size the number of elements to take in each window @param step the number of elements to move the window forward by on an each step, by default 1 @param partialWindows controls whether

or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved @sample samples.collections.Sequences.Transformations.takeWindows

```
*\n@SinceKotlin("1.2")\npublic fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {\n    return windowedSequence(size, step, partialWindows, reuseBuffer = false)\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this sequence with the given [step].\n *\n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have fewer elements than the given [size].\n * Both [size] and [step] must be positive and can be greater than the
```

number of elements in this sequence. @param size the number of elements to take in each window @param step the number of elements to move the window forward by on an each step, by default 1 @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved @sample

```
samples.collections.Sequences.Transformations.averageWindows\n *\n@SinceKotlin("1.2")\npublic fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {\n    return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
```

samples.collections.Sequences.Transformations.zip

```
*\npublic infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {\n    return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
```

samples.collections.Sequences.Transformations.zipWithTransform

```
*\npublic fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n    return MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in this sequence.\n *\n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n
```

```
*\n *\n * @sample samples.collections.Collections.Transformations.zipWithNext\n *\n@SinceKotlin("1.2")\npublic fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n    return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this sequence.\n *\n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
```

```
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n *\n@SinceKotlin("1.2")\npublic fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n    return sequenceResult@\n    {\n        val iterator = iterator()\n        if (!iterator.hasNext()) return@result\n        var current = iterator.next()\n        while (iterator.hasNext()) {\n            val next = iterator.next()\n            yield(transform(current, next))\n            current = next\n        }\n    }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n *\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed
```

```

by the [truncated] string (which defaults to "...").\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable>
Sequence<T>.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"\", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...\", transform: ((T) -> CharSequence)? = null): A
{\n    buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1)
buffer.append(separator)\n        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element,
transform)\n        } else break\n    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n
buffer.append(postfix)\n    return buffer\n}\n\n/**\n * Creates a string from all the elements separated using
[separator] and using the given [prefix] and [postfix] if supplied.\n *\n * If the collection could be huge, you can
specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed
by the [truncated] string (which defaults to "...").\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T>
Sequence<T>.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\"\", postfix: CharSequence =
\"\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((T) -> CharSequence)? = null): String {\n    return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an
[Iterable]
instance that wraps the original sequence returning its elements when being iterated.\n */\npublic fun <T>
Sequence<T>.asIterable(): Iterable<T> {\n    return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as
a [Sequence].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T>
{\n    return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is
_terminal_.\n */\n@kotlin.jvm.JvmName("averageOfByte")\npublic fun Sequence<Byte>.average(): Double {\n    var
sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Sequence<Short>.average(): Double {\n    var sum:
Double = 0.0\n    var count:
Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun
Sequence<Int>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Sequence<Long>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average
value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Sequence<Float>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Sequence<Double>.average(): Double {\n    var sum:
Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*/\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Sequence<Byte>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this)

```

```

    {
        sum += element
    }
    return sum
}

/** Returns the sum of all elements in the sequence.
 * The operation is _terminal_
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Sequence<Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/** Returns the sum of all elements in the sequence.
 * The operation is _terminal_
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Sequence<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/** Returns the sum of all elements in the sequence.
 * The operation is _terminal_
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Sequence<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/** Returns the sum of all elements in the sequence.
 * The operation is _terminal_
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Sequence<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/** Returns the sum of all elements in the sequence.
 * The operation is _terminal_
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Sequence<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

"/*
 * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")
npackage
kotlin.collections
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
nimport kotlin.random.*
nimport
kotlin.ranges.contains
nimport
kotlin.ranges.reversed

/** Returns a set containing all elements of the original set except the given
 * [element].
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun
<T> Set<T>.minus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}

/** Returns a set containing all elements of the original set except the elements contained in the given
 * [elements] array.
 * The returned set preserves the element iteration order of the original set.
 * Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements
 * were required to have a correct and stable implementation of `hashCode()` that didn't change between successive
 * invocations.
 * On JVM, you can enable this behavior back with
 * the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.
 */
public operator fun
<T> Set<T>.minus(elements: Array<out T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}

/** Returns a set containing all elements of the original set
 * except the elements contained in the given [elements] collection.
 * The returned set preserves the element
 * iteration order of the original set.
 * Before Kotlin 1.6, the [elements] collection may have been converted to a
 * [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation
 * of `hashCode()` that didn't change between successive invocations.
 * On JVM, you can enable this behavior back
 * with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.
 */
public operator fun
<T> Set<T>.minus(elements: Iterable<T>): Set<T> {
    val other =
elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty())
        return this.toSet()
    if (other is Set)
        return
this.filterNotTo(LinkedHashSet<T>()) { it in other }
    val result = LinkedHashSet<T>(this)
    result.removeAll(other)
    return result
}

/** Returns a set containing all elements of the original set
 * except the elements contained in the given [elements] sequence.
 * The returned set preserves the element
 * iteration order of the original set.
 * Before Kotlin 1.6, the [elements] sequence may have been converted to a
 * [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation
 * of `hashCode()` that didn't change between successive invocations.
 * On JVM, you can enable this behavior back
 * with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.
 */
public operator fun
<T> Set<T>.minus(elements: Sequence<T>): Set<T> {
    val result = LinkedHashSet<T>(this)
}

```

```

    result.removeAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set
except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element: T): Set<T> {\n    return
minus(element)\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if
it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n
*\npublic operator fun <T> Set<T>.plus(element: T): Set<T> {\n    val result =
LinkedHashSet<T>(mapCapacity(size + 1))\n    result.addAll(this)\n    result.add(element)\n    return
result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] array,\n *
which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original
set.\n *\npublic operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {\n    val result =
LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n    result.addAll(this)\n    result.addAll(elements)\n
return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements]
collection,\n * which aren't already in this set.\n * The returned set preserves the element iteration order of the
original set.\n *\npublic operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {\n    val result =
LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))\n
result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of
the original set and the given [elements] sequence,\n * which aren't already in this set.\n * \n * The returned set
preserves the element iteration order of the original set.\n *\npublic operator fun <T> Set<T>.plus(elements:
Sequence<T>): Set<T> {\n    val result = LinkedHashSet<T>(mapCapacity(this.size * 2))\n    result.addAll(this)\n
result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a set containing all elements of the original set and
then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration
order of the original set.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.plusElement(element: T):
Set<T> {\n    return plus(element)\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n
* Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of
bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n *\npublic
expect fun CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if
the [index] is out of bounds of this char sequence.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.elementAtOrNull(index:
Int): Char? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first character matching the given
[predicate], or `null` if no such character was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.find(predicate: (Char) -> Boolean): Char? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns
the last character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n *\npublic fun
CharSequence.first(): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Char sequence is
empty.")\n    return this[0]\n}\n\n/**\n * Returns

```

the first character matching the given [predicate].\n \* @throws [NoSuchElementException] if no such character is found.\n \*/\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n/\*\*\n \* Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in iteration order,\n \* or throws [NoSuchElementException] if no non-null value was produced.\n \* \n \* @sample samples.collections.Collections.Transformations.firstNotNullOf\n \*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any> CharSequence.firstNotNullOf(transform: (Char) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the char sequence was transformed to a non-null value.")\n}\n\n/\*\*\n \* Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in iteration order,\n \* or `null` if no non-null value was produced.\n \* \n \* @sample samples.collections.Collections.Transformations.firstNotNullOf\n \*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any> CharSequence.firstNotNullOfOrNull(transform: (Char) -> R?): R? {\n for (element in this) {\n val result = transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/\*\*\n \* Returns the first character, or `null` if the char sequence is empty.\n \*/\npublic fun CharSequence.firstOrNull(): Char? {\n return if (isEmpty()) null else this[0]\n}\n\n/\*\*\n \* Returns the first character matching the given [predicate], or `null` if character was not found.\n \*/\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/\*\*\n \* Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n \*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/\*\*\n \* Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n \* \n \* @sample samples.collections.Collections.Elements.getOrNull\n \*/\npublic fun CharSequence.getOrNull(index: Int): Char? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/\*\*\n \* Returns index of the first character matching the given [predicate], or -1 if the char sequence does not contain such character.\n \*/\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index]))\n return index\n }\n return -1\n}\n\n/\*\*\n \* Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.\n \*/\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index]))\n return index\n }\n return -1\n}\n\n/\*\*\n \* Returns the last character.\n \* \n \* @throws NoSuchElementException if the char sequence is empty.\n \* \n \* @sample samples.text.Strings.last\n \*/\npublic fun CharSequence.last(): Char {\n if (isEmpty())\n throw NoSuchElementException("Char sequence is empty.")\n return this[lastIndex]\n}\n\n/\*\*\n \* Returns the last character matching the given [predicate].\n \* \n \* @throws NoSuchElementException if no such character is found.\n \* \n \* @sample samples.text.Strings.last\n \*/\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n/\*\*\n \* Returns the last character, or `null` if the char sequence is empty.\n \* \n \* @sample samples.text.Strings.last\n \*/\npublic fun CharSequence.lastOrNull(): Char? {\n return if (isEmpty()) null else this[length - 1]\n}\n\n/\*\*\n \* Returns the last character matching the given [predicate], or `null` if no such character was found.\n \* \n \* @sample samples.text.Strings.last\n \*/\npublic inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/\*\*\n \* Returns a random character from this char sequence.\n \* \n \* @throws NoSuchElementException

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if this char sequence is empty.\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.random(): Char {\n    return random(Random)\n}\n\n/**\n * Returns a random character from this
char sequence using the specified source of randomness.\n * \n * @throws NoSuchElementException if this char
sequence is empty.\n *\n@SinceKotlin("1.3")\npublic fun CharSequence.random(random: Random): Char {\n    if
(isEmpty())\n        throw NoSuchElementException("Char sequence is empty.")\n    return
get(random.nextInt(length))\n}\n\n/**\n * Returns a random character from this char sequence, or `null` if this char
sequence is empty.\n\n*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random character from this char sequence using the specified source of randomness, or `null` if this char sequence is
empty.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharSequence.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence
is empty or has more than one character.\n *\npublic fun CharSequence.single(): Char {\n    return when (length)
{\n        0 -> throw NoSuchElementException("Char sequence is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Char sequence has more than one element.")\n    }\n}\n\n/**\n * Returns the single
character matching the given [predicate], or throws exception if there is no or more than one matching character.\n\n*\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n    var single: Char? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Char sequence contains more than one matching element.")\n            single =
element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Char sequence
contains no character matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as
Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n\n*\npublic fun CharSequence.singleOrNull(): Char? {\n    return if (length == 1) this[0] else null\n}\n\n/**\n *
Returns the single character matching the given [predicate], or `null` if character was not found or more than one
character was found.\n *\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var
single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a subsequence of this char sequence
with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.text.Strings.drop\n *\npublic fun CharSequence.drop(n: Int): CharSequence {\n    require(n >= 0)
{\n        "Requested character count $n is less than zero." }\n    return subSequence(n.coerceAtMost(length),
length)\n}\n\n/**\n * Returns a string with the first [n] characters removed.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n *\npublic fun
String.drop(n: Int): String {\n    require(n >= 0) {\n        "Requested character count $n is less than zero." }\n    return
substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n]
characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.drop\n\n*\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n    require(n >= 0) {\n        "Requested character count
$n is less than zero." }\n    return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n]
characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.drop\n\n*\npublic fun String.dropLast(n: Int): String {\n    require(n >= 0) {\n        "Requested
character count $n is less than zero." }\n    return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a
subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].\n\n*\n * @sample samples.text.Strings.drop\n *\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) ->
Boolean): CharSequence {\n    for (index in lastIndex downTo 0)\n        if (!predicate(this[index]))\n            return
subSequence(0, index + 1)\n    return ""\n}\n\n/**\n * Returns a string containing

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all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n
*\npublic inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {\n  for (index in lastIndex\n
downTo 0)\n    if (!predicate(this[index]))\n      return substring(0, index + 1)\n  return ""\n}\n\n*\n * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given\n
[predicate].\n * \n * @sample samples.text.Strings.drop\n *\npublic inline fun CharSequence.dropWhile(predicate:\n
(Char) -> Boolean): CharSequence {\n  for (index in this.indices)\n    if (!predicate(this[index]))\n      return\n
subSequence(index, length)\n  return ""\n}\n\n*\n * Returns a string containing all characters except first\n
characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n *\npublic inline fun\n
String.dropWhile(predicate: (Char) -> Boolean): String {\n\n  for (index in this.indices)\n    if (!predicate(this[index]))\n      return substring(index)\n  return\n
""\n}\n\n*\n * Returns a char sequence containing only those characters from the original char sequence that\n
match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n *\npublic inline fun\n
CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n  return filterTo(StringBuilder(),\n
predicate)\n}\n\n*\n * Returns a string containing only those characters from the original string that match the\n
given [predicate].\n * \n * @sample samples.text.Strings.filter\n *\npublic inline fun String.filter(predicate: (Char) -\n
> Boolean): String {\n  return filterTo(StringBuilder(), predicate).toString()\n}\n\n*\n * Returns a char sequence\n
containing only those characters from the original char sequence that match the given [predicate].\n * @param\n
[predicate] function that takes the index of a character and the character itself\n * and returns the\n
result of predicate evaluation on the character.\n * \n * @sample\n
samples.collections.Collections.Filtering.filterIndexed\n *\npublic inline fun CharSequence.filterIndexed(predicate:\n
(index: Int, Char) -> Boolean): CharSequence {\n  return filterIndexedTo(StringBuilder(), predicate)\n}\n\n*\n * Returns a string containing only those characters from the original string that match the given [predicate].\n *\n
@param [predicate] function that takes the index of a character and the character itself\n * and returns the result of\n
predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
*\npublic inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {\n  return\n
filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n*\n * Appends all characters matching the given\n
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of a character and the\n
character itself\n
* and returns the result of predicate evaluation on the character.\n * \n * @sample\n
samples.collections.Collections.Filtering.filterIndexedTo\n *\npublic inline fun <C : Appendable>\n
CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n  forEachIndexed {\n
index, element ->\n    if (predicate(index, element)) destination.append(element)\n  }\n  return\n
destination\n}\n\n*\n * Returns a char sequence containing only those characters from the original char sequence\n
that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n *\npublic inline fun\n
CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n  return filterNotTo(StringBuilder(),\n
predicate)\n}\n\n*\n * Returns a string containing only those characters from the original string that do not match\n
the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n *\npublic inline fun\n
String.filterNot(predicate: (Char) -> Boolean):\n
String {\n  return filterNotTo(StringBuilder(), predicate).toString()\n}\n\n*\n * Appends all characters not\n
matching the given [predicate] to the given [destination].\n * \n * @sample\n
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : Appendable>\n
CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if\n
(!predicate(element)) destination.append(element)\n  return destination\n}\n\n*\n * Appends all characters\n
matching the given [predicate] to the given [destination].\n * \n * @sample\n
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : Appendable>\n
CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (index in 0 until length) {\n    val\n
element = get(index)\n    if (predicate(element)) destination.append(element)\n  }\n  return\n
destination\n}\n\n*\n * Returns a char sequence containing characters of the original char sequence at the

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specified range of [indices].\n *\npublic fun CharSequence.slice(indices: IntRange): CharSequence {\n  if
(indices.isEmpty()) return ""\n  return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters
of the original string at the specified range of [indices].\n *\npublic fun String.slice(indices: IntRange): String {\n
if (indices.isEmpty()) return ""\n  return substring(indices)\n}\n\n/**\n * Returns a char sequence containing
characters of the original char sequence at specified [indices].\n *\npublic fun CharSequence.slice(indices:
Iterable<Int>): CharSequence {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return ""\n
val result = StringBuilder(size)\n  for (i in indices) {\n    result.append(get(i))\n  }\n  return result\n}\n\n/**\n
* Returns a string containing characters of the original string at specified [indices].\n
*\n@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>):
String {\n  return (this as CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char
sequence containing the first [n] characters from this char sequence, or the entire char sequence if this char sequence
is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.take\n *\npublic fun CharSequence.take(n: Int): CharSequence {\n  require(n >= 0) {\n
"Requested character count $n is less than zero." }\n  return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n
* Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.\n
* \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n *\npublic fun
String.take(n: Int): String {\n  require(n >= 0) {\n    "Requested character count $n is less than zero." }\n  return
substring(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this
char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char
sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.take\n *\npublic fun CharSequence.takeLast(n: Int): CharSequence {\n  require(n >= 0) {\n
"Requested character count $n is less than zero." }\n  val length = length\n  return subSequence(length -
n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string containing the last [n] characters from this string, or
the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.text.Strings.take\n *\npublic fun String.takeLast(n: Int): String {\n  require(n >= 0) {\n
"Requested character count $n is less than zero." }\n  val length = length\n  return substring(length -
n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing last characters
that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n *\npublic inline fun
CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {\n  for (index in lastIndex downTo 0)
{\n    if (!predicate(this[index])) {\n      return subSequence(index + 1, length)\n    }\n  }\n  return
subSequence(0, length)\n}\n\n/**\n * Returns a string containing last characters that satisfy the given [predicate].\n
* \n * @sample samples.text.Strings.take\n *\npublic inline fun String.takeLastWhile(predicate: (Char) ->
Boolean): String {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return
substring(index + 1)\n    }\n  }\n  return this\n}\n\n/**\n * Returns a subsequence of this char sequence
containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n
*\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence
{\n  for (index in 0 until length)\n    if (!predicate(get(index))) {\n      return subSequence(0, index)\n    }\n
return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that satisfy the given
[predicate].\n * \n * @sample samples.text.Strings.take\n *\npublic inline fun String.takeWhile(predicate: (Char) ->
Boolean): String {\n  for (index in 0 until length)\n    if (!predicate(get(index))) {\n      return substring(0,
index)\n    }\n  return this\n}\n\n/**\n * Returns a char sequence with characters in reversed order.\n *\npublic
fun CharSequence.reversed(): CharSequence {\n  return StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string
with characters in reversed order.\n *\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n
return (this as CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs
provided by [transform] function\n
* applied to characters of the given char sequence.\n * \n * If any of two pairs would have the same key the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n
* \n * @sample samples.text.Strings.associate\n *\npublic inline fun <K, V> CharSequence.associate(transform:

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(Char) -> Pair<K, V>: Map<K, V> { \n  val capacity = mapCapacity(length).coerceAtLeast(16)\n  return
associateTo(LinkedHashMap<K, V>(capacity), transform)\n }\n\n/**\n * Returns a [Map] containing the characters
from the given char sequence indexed by the key\n * returned from [keySelector] function applied to each
character.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added
to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n *
@sample samples.text.Strings.associateBy\n */\npublic inline fun <K> CharSequence.associateBy(keySelector:
(Char) -> K): Map<K, Char> { \n  val capacity = mapCapacity(length).coerceAtLeast(16)\n  return
associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n }\n\n/**\n * Returns a [Map] containing the
values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char
sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added
to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n *
@sample samples.text.Strings.associateByWithValueTransform\n */\npublic inline fun <K, V>
CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> { \n  val capacity
= mapCapacity(length).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n }\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the
[keySelector] function applied to each character of the given char sequence\n * and value is the character itself.\n *
\n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * \n * @sample samples.text.Strings.associateByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Char>>
CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M { \n  for (element in this) { \n
destination.put(keySelector(element), element)\n  }\n  return destination\n }\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n *
and value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * If any
two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.text.Strings.associateByToWithValueTransform\n */\npublic inline fun
<K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> V): M { \n  for (element in this) { \n    destination.put(keySelector(element),
valueTransform(element))\n  }\n  return destination\n }\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each character of the given char
sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n *
@sample
samples.text.Strings.associateTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>>
CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M { \n  for (element in this) { \n
destination += transform(element)\n  }\n  return destination\n }\n\n/**\n * Returns a [Map] where keys are
characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each
character.\n
\n * \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map preserves the
entry iteration order of the original char sequence.\n * \n * \n * @sample samples.text.Strings.associateWith\n
*/\n\n/**\n * @SinceKotlin("1.3")\n */\npublic inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V):
Map<Char, V> { \n  val result = LinkedHashMap<Char,
V>(mapCapacity(length.coerceAtMost(128)).coerceAtLeast(16))\n  return associateWithTo(result,
valueSelector)\n }\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
character of the given char sequence,\n * where key is the character itself and value is provided by the
[valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the
former value in the map.\n * \n * \n * @sample samples.text.Strings.associateWithTo\n
*/\n\n/**\n * @SinceKotlin("1.3")\n */\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharSequence.associateWithTo(destination:
M, valueSelector: (Char) -> V): M { \n  for (element in this) { \n    destination.put(element,
valueSelector(element))\n  }\n  return destination\n }\n\n/**\n * Appends all characters to the given [destination]

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collection.\n */\npublic fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n
for (item in this) {\n    destination.add(item)\n } \n return destination\n}\n\n/**\n * Returns a new [HashSet] of
all characters.\n */\npublic fun CharSequence.toHashSet(): HashSet<Char> {\n    return
toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing
all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n    return when (length) {\n        0 ->
emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a new
[MutableList] filled with all characters of this char sequence.\n */\npublic fun CharSequence.toMutableList():
MutableList<Char> {\n    return toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all
characters.\n * \n * The returned set preserves the element iteration order of the original char sequence.\n */\npublic
fun CharSequence.toSet(): Set<Char> {\n    return when (length) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n
else -> toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n    }\n}\n\n/**\n *
Returns a single list of all elements yielded from results of [transform] function being invoked on each character of
original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic
inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n    return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of
[transform] function being invoked on each character\n * and its index in the original char sequence.\n
* \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each character\n * and its index in the original char sequence, to the given
[destination].\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index:
Int, Char) -> Iterable<R>): C {\n
    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each character of original char sequence, to the given [destination].\n
*/\n\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C, transform: (Char)
-> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n
    }\n    return destination\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the
given [keySelector] function\n * applied to each character and returns a map where each group key is associated
with a list of corresponding characters.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*/\n\npublic inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each character of the original char sequence\n * by the key returned by the
given [keySelector] function applied to the character\n * and returns a map where each group key is associated with
a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n\npublic inline fun <K, V>
CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
characters of the original char sequence by the key returned by

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the given [keySelector] function applied to each character and puts to the [destination] map each group key associated with a list of corresponding characters.

```

@return The [destination] map.
@sample
samples.collections.Collections.Transformations.groupBy
*/npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Char>() }
        list.add(element)
    }
    return destination
}
*/n/n/**
* Groups values returned by the [valueTransform] function applied to each character of the original char sequence by the key returned by the given [keySelector] function applied to the character and puts to the [destination] map each group key associated with a list of corresponding values.
* @return The [destination] map.
* @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}
*/n/n/**
* Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations using the specified [keySelector] function to extract a key from each character.
* @sample samples.collections.Grouping.groupingByEachCount
*/n@SinceKotlin("1.1")npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {
    return object : Grouping<Char, K> {
        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()
        override fun keyOf(element: Char): K = keySelector(element)
    }
}
*/n/n/**
* Returns a list containing the results of applying the given [transform] function to each character in the original char sequence.
* @sample samples.text.Strings.map
*/npublic inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(length), transform)
}
*/n/n/**
* Returns a list containing the results of applying the given [transform] function to each character and its index in the original char sequence.
* @param [transform] function that takes the index of a character and the character itself and returns the result of the transform applied to the character.
*/npublic inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(length), transform)
}
*/n/n/**
* Returns a list containing only the non-null results of applying the given [transform] function to each character and its index in the original char sequence.
* @param [transform] function that takes the index of a character and the character itself and returns the result of the transform applied to the character.
*/npublic inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)
}
*/n/n/**
* Applies the given [transform] function to each character and its index in the original char sequence and appends only the non-null results to the given [destination].
* @param [transform] function that takes the index of a character and the character itself and returns the result of the transform applied to the character.
*/npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {
    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
    return destination
}
*/n/n/**
* Applies the given [transform] function to each character and its index in the original char sequence and appends the results to the given [destination].
* @param [transform] function that takes the index of a character and the character itself and returns the result of the transform applied to the character.
*/npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    var index = 0
    for (item in this) {
        destination.add(transform(index++, item))
    }
    return destination
}
*/n/n/**
* Returns a list containing only the non-null results of applying the given [transform] function to each character in the original char sequence.
* @sample samples.collections.Collections.Transformations.mapNotNull
*/npublic inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}
*/n/n/**
* Applies the given [transform] function to each

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character in the original char sequence\n * and appends only the non-null results to the given [destination].\n
*\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C,
transform: (Char) -> R?): C {\n  forEach { element -> transform(element)?.let { destination.add(it) } }\n  return
destination\n}\n\n/**\n * Applies the given [transform] function to each character of the original char sequence\n *
and appends the results to the given [destination].\n *\npublic inline fun <R, C : MutableCollection<in R>>
CharSequence.mapTo(destination: C, transform: (Char) -> R): C {\n  for (item in this)\n  destination.add(transform(item))\n  return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each
character of the original char sequence\n * into an [IndexedValue] containing the index of that character and the
character itself.\n *\npublic fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n  return
IndexingIterable
{ iterator() }\n}\n\n/**\n * Returns `true` if all characters match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n *\npublic inline fun CharSequence.all(predicate: (Char) ->
Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n *
Returns `true` if char sequence has at least one character.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n *\npublic fun CharSequence.any(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun CharSequence.any(predicate:
(Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
false\n}\n\n/**\n * Returns the length of this char sequence.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.count(): Int {\n
  return length\n}\n\n/**\n * Returns the number of characters matching the given [predicate].\n *\npublic inline
fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each character.\n * \n * Returns the
specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes current
accumulator value and a character, and calculates the next accumulator value.\n *\npublic inline fun <R>
CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value
and each character with its index in the original char sequence.\n * \n * Returns the specified [initial] value if
the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, current
accumulator value\n * and the character itself, and calculates the next accumulator value.\n *\npublic inline fun
<R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each character and current accumulator value.\n * \n * Returns the specified [initial] value if the
char sequence is empty.\n * \n * @param [operation] function that takes a character and current accumulator value,
and calculates the next accumulator value.\n *\npublic inline fun <R> CharSequence.foldRight(initial:
R, operation: (Char, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >=
0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character
with its index in the original char sequence and current accumulator value.\n * \n * Returns the specified [initial]
value if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the
character itself\n * and current accumulator value, and calculates the next accumulator value.\n *\npublic inline fun <R>
CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n

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* Performs the given [action] on each character.\n *\npublic inline fun CharSequence.forEach(action: (Char) ->
Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each character,
providing sequential index with the character.\n * @param [action] function that takes the index of a character and
the character itself\n * and performs the action on the character.\n *\npublic inline fun
CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n  var index = 0\n  for (item in this)
action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun CharSequence.max(): Char? {\n  return maxOrNull()\n}\n\n@Deprecated("Use
maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince
= "1.6")\npublic inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {\n
return maxByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the largest value of the given
function or `null` if there are no characters.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {\n  if (isEmpty()) return null\n  var
maxElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxVale =
selector(maxElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxVale < v)
{\n      maxElem = e\n      maxVale = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the largest
value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If
any
of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->
Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var maxVale = selector(this[0])\n  for
(i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxVale = maxOf(maxVale, v)\n  }\n  return
maxVale\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.maxOf(selector: (Char) -> Float): Float {\n  if (isEmpty()) throw
NoSuchElementException()\n  var maxVale = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    maxVale = maxOf(maxVale, v)\n  }\n  return maxVale\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n
*\n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.maxOf(selector: (Char) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
maxVale = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxVale
< v) {\n      maxVale = v\n    }\n  }\n  return maxVale\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no
characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:
(Char) -> Double): Double? {\n  if (isEmpty()) return null\n  var maxVale = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    maxVale = maxOf(maxVale, v)\n  }\n  return
maxVale\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to

```

each character in the char sequence or `null` if there are no characters.

```

    * \n * If any of values
    produced by [selector] function is `NaN`, the returned result is `NaN`.
    * \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
    ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun CharSequence.maxOrNull(selector:
    (Char) -> Float): Float? { \n     if (isEmpty()) return null \n     var maxValue = selector(this[0]) \n     for (i in
    1..lastIndex) { \n         val v = selector(this[i]) \n         maxValue = maxOf(maxValue, v) \n     } \n     return
    maxValue \n } \n \n * Returns the largest value among all values produced by [selector] function \n * applied to
    each character in the char sequence or `null` if there are no characters.
    * \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
    ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R : Comparable<R>>
    CharSequence.maxOrNull(selector: (Char) -> R): R? { \n     if (isEmpty()) return null \n     var maxValue =
    selector(this[0]) \n     for (i in 1..lastIndex) { \n         val v = selector(this[i]) \n         if (maxValue < v) { \n
    maxValue = v \n         } \n     } \n     return maxValue \n } \n \n * Returns the largest value according to the provided [comparator] \n * among all
    values produced by [selector] function applied to each character in the char sequence. \n * \n * @throws
    NoSuchElementException if the char sequence is empty.
    * \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
    ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R> CharSequence.maxWith(comparator:
    Comparator<in R>, selector: (Char) -> R): R { \n     if (isEmpty()) throw NoSuchElementException() \n     var
    maxValue = selector(this[0]) \n     for (i in 1..lastIndex) { \n         val v = selector(this[i]) \n         if
    (comparator.compare(maxValue, v) < 0) { \n             maxValue = v \n         } \n     } \n     return maxValue \n } \n \n *
    Returns the largest value
    according to the provided [comparator] \n * among all values produced by [selector] function applied to each
    character in the char sequence or `null` if there are no characters.
    * \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
    ByLambdaReturnType \n @kotlin.internal.InlineOnly \n public inline fun <R>
    CharSequence.maxWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? { \n     if (isEmpty())
    return null \n     var maxValue = selector(this[0]) \n     for (i in 1..lastIndex) { \n         val v = selector(this[i]) \n
    if
    (comparator.compare(maxValue, v) < 0) { \n             maxValue = v \n         } \n     } \n     return maxValue \n } \n \n *
    Returns the largest character or `null` if there are no characters.
    * \n @SinceKotlin("1.4") \n public fun
    CharSequence.maxOrNull(): Char? { \n     if (isEmpty()) return null \n     var max = this[0] \n     for (i in 1..lastIndex)
    { \n         val e = this[i] \n         if (max < e) max = e \n     } \n     return max \n } \n \n @Deprecated("Use maxWithOrNull instead.",
    ReplaceWith("this.maxWithOrNull(comparator)")) \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince
    = "1.5", hiddenSince = "1.6") \n public fun CharSequence.maxWith(comparator: Comparator<in Char>): Char?
    { \n     return maxWithOrNull(comparator) \n } \n \n * Returns the first character having the largest value
    according to the provided [comparator] or `null` if there are no characters.
    * \n @SinceKotlin("1.4") \n public fun
    CharSequence.maxWithOrNull(comparator: Comparator<in Char>): Char? { \n     if (isEmpty()) return null \n     var
    max = this[0] \n     for (i in 1..lastIndex) { \n         val e = this[i] \n         if (comparator.compare(max, e) < 0) max = e \n
    } \n     return max \n } \n \n @Deprecated("Use minOrNull instead.",
    ReplaceWith("this.minOrNull()")) \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
    hiddenSince = "1.6") \n public fun CharSequence.min(): Char? { \n     return minOrNull() \n } \n \n @Deprecated("Use
    minByOrNull instead.", ReplaceWith("this.minByOrNull(selector)")) \n @DeprecatedSinceKotlin(warningSince =
    "1.4", errorSince = "1.5", hiddenSince = "1.6") \n public inline fun <R : Comparable<R>>
    CharSequence.minBy(selector: (Char) -> R): Char? { \n     return minByOrNull(selector) \n } \n \n * Returns the
    first character yielding the smallest value of the given function or `null` if there are no characters. \n * \n * @sample
    samples.collections.Collections.Aggregates.minByOrNull
    * \n @SinceKotlin("1.4") \n public inline fun <R :
    Comparable<R>> CharSequence.minByOrNull(selector: (Char) -> R): Char? { \n     if (isEmpty()) return null \n     var

```

```

minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return
minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOf(selector: (Char) -> R): R
{\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n
return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOrNull(selector:
(Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each character in the char sequence or `null`
if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOrNull(selector:
(Char) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in
1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each character in the char
sequence or `null` if there are no characters.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharSequence.minOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return
null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/

```



```

*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@kotlin.internal.InlineOnly^public inline fun <R> CharSequence.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {^n if (isEmpty()) throw NoSuchElementException()^n var
minValue = selector(this[0])^n for (i in 1..lastIndex) {^n val v
= selector(this[i])^n if (comparator.compare(minValue, v) > 0) {^n minValue = v^n }}^n return
minValue^}^n/n/**^n * Returns the smallest value according to the provided [comparator]^n * among all values
produced by [selector] function applied to each character in the char sequence or `null` if there are no characters.^n
*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@kotlin.internal.InlineOnly^public inline fun <R>
CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {^n if (isEmpty())
return null^n var minValue = selector(this[0])^n for (i in 1..lastIndex) {^n val v = selector(this[i])^n if
(comparator.compare(minValue, v) > 0) {^n minValue = v^n }}^n return minValue^}^n/n/**^n *
Returns the smallest character or `null` if there are no characters.^n
*^@SinceKotlin("1.4")^npublic fun
CharSequence.minOrNull(): Char? {^n if (isEmpty()) return null^n var min = this[0]^n for (i in 1..lastIndex)
{^n val e = this[i]^n if (min > e) min = e^n }}^n return min^}^n/n@Deprecated("Use minWithOrNull
instead.", ReplaceWith("this.minWithOrNull(comparator)"))^n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")^npublic fun CharSequence.minWith(comparator: Comparator<in
Char>): Char? {^n return minWithOrNull(comparator)^}^n/n/**^n * Returns the first character having the smallest
value according to the provided [comparator] or `null` if there are no characters.^n
*^@SinceKotlin("1.4")^npublic fun CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char?
{^n if (isEmpty()) return null^n var min = this[0]^n for (i in 1..lastIndex) {^n val e = this[i]^n if
(comparator.compare(min, e) > 0) min = e^n }}^n return min^}^n/n/**^n * Returns `true` if the char sequence has
no
characters.^n * ^n * @sample samples.collections.Collections.Aggregates.none^n *^npublic fun
CharSequence.none(): Boolean {^n return isEmpty()^}^n/n/**^n * Returns `true` if no characters match the given
[predicate].^n * ^n * @sample samples.collections.Collections.Aggregates.noneWithPredicate^n *^npublic inline fun
CharSequence.none(predicate: (Char) -> Boolean): Boolean {^n for (element in this) if (predicate(element)) return
false^n return true^}^n/n/**^n * Performs the given [action] on each character and returns the char sequence itself
afterwards.^n *^@SinceKotlin("1.1")^npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S
{^n return apply { for (element in this) action(element) }^}^n/n/**^n * Performs the given [action] on each
character, providing sequential index with the character,^n * and returns the char sequence itself afterwards.^n *
@param [action] function that takes the index of a character and the character itself^n * and performs
the action on the character.^n *^@SinceKotlin("1.4")^npublic inline fun <S : CharSequence>
S.onEachIndexed(action: (index: Int, Char) -> Unit): S {^n return apply { forEachIndexed(action) }^}^n/n/**^n *
Accumulates value starting with the first character and applying [operation] from left to right^n * to current
accumulator value and each character.^n * ^n * Throws an exception if this char sequence is empty. If the char
sequence can be empty in an expected way,^n * please use [reduceOrNull] instead. It returns `null` when its receiver
is empty.^n * ^n * @param [operation] function that takes current accumulator value and a character,^n * and
calculates the next accumulator value.^n * ^n * @sample samples.collections.Collections.Aggregates.reduce^n *
*^npublic inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {^n if (isEmpty())^n
throw UnsupportedOperationException("Empty char sequence can't be reduced.")^n var accumulator = this[0]^n
for (index in 1..lastIndex) {^n accumulator = operation(accumulator, this[index])^n }}^n return
accumulator^}^n/n/**^n * Accumulates value starting with the first character and applying [operation] from left to
right^n * to current accumulator value and each character with its index in the original char sequence.^n * ^n *
Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,^n *
please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.^n * ^n * @param [operation]
function that takes the index of a character, current accumulator value and the character itself,^n * and calculates the
next accumulator value.^n * ^n * @sample samples.collections.Collections.Aggregates.reduce^n *^npublic inline fun

```

```

CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character with its index in the original char sequence. Returns `null` if the char sequence is empty.
 @param [operation] function that takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
public inline fun CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first character and applying [operation] from left to right to current accumulator value and each character. Returns `null` if the char sequence is empty.
 @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character and current accumulator value. Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character with its index in the original char sequence and current accumulator value. Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.
 @param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceRight

```

public inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character with its index in the original char sequence and current accumulator value. Returns `null` if the char sequence is empty.
 @param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduceRightOrNull

```

@SinceKotlin("1.4")
public inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0)
        return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last character and applying [operation] from right to left to each character and current accumulator value. Returns `null` if the char sequence is empty.
 @param [operation]

function that takes a character

and current accumulator value, and calculates the next accumulator value.

`samples.collections.Collections.Aggregates.reduceRightOrNull`

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
```

```
CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator =\n        operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Returns a list containing successive\n * accumulation values generated by applying [operation] from left to right\n * to each character and current\n * accumulator value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation]
```

function that takes current accumulator value and a character,

and calculates the next accumulator value.

`samples.collections.Collections.Aggregates.runningFold`

```
*\n@SinceKotlin("1.4")\npublic inline fun <R>
```

```
CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return\n    listOf(initial)\n    val result = ArrayList<R>(length + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying\n * [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator\n * value that starts with [initial] value.\n * Note that `acc` value passed to [operation] function should not be\n * mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param [operation] function that
```

takes the index of a character,

current accumulator value and the character itself, and calculates the next accumulator value.

`samples.collections.Collections.Aggregates.runningFold`

```
*\n@SinceKotlin("1.4")\npublic inline fun <R>
```

```
CharSequence.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(length + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation\n * values generated by applying [operation] from left to right\n * to each character and current accumulator value that\n * starts with the first character of this char sequence.\n * Note that `acc` value passed to [operation] function\n * should not be mutated;\n * otherwise it would affect the previous value in resulting
```

list.

`samples.collections.Collections.Aggregates.runningReduce`

```
*\n@SinceKotlin("1.4")\npublic inline fun CharSequence.runningReduce(operation: (acc: Char, Char) -> Char):
```

```
List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result =\n    ArrayList<Char>(length).apply { add(accumulator) }\n    for (index in 1 until length) {\n        accumulator =\n        operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list\n * containing successive accumulation values generated by applying [operation] from left to right\n * to each character,\n * its index in the original char sequence and current accumulator value that starts with the first character of this char\n * sequence.\n * Note that `acc` value passed to [operation] function should not be mutated;\n *
```

\* otherwise it would affect the previous value in resulting list.

`samples.collections.Collections.Aggregates.runningReduce`

```
*\n@SinceKotlin("1.4")\npublic inline fun CharSequence.runningReduceIndexed(operation: (index: Int, acc:
```

```
Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result =\n    ArrayList<Char>(length).apply { add(accumulator) }\n    for (index in 1 until length) {\n        accumulator =\n        operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with [initial] value.\n * Note that `acc` value
```

returns a list containing successive accumulation values generated by applying [operation] from left to right to each character and current accumulator value that starts with [initial] value.

passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each character, its index in the original char sequence and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index
of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n *
\n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.\n * \n * @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumBy(selector: (Char) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.\n * \n * @Deprecated("Use
sumOf instead.", ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double
= 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum
of all values produced by [selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.sumOf(selector: (Char) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong):

```

```

ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

```

Splits this char sequence into a list of strings each not exceeding the given [size]. The last string in the resulting list may have fewer characters than the given [size]. @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence. @sample

```

samples.text.Strings.chunked

```

@SinceKotlin("1.2")

```

public fun CharSequence.chunked(size: Int):
List<String> {
    return windowed(size, size, partialWindows = true)
}

```

Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to an each. @return list of results of the [transform] applied to an each char sequence. Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it. The last char sequence may have fewer characters than the given [size]. @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence. @sample

```

samples.text.Strings.chunkedTransform

```

@SinceKotlin("1.2")

```

public fun <R> CharSequence.chunked(size:
Int, transform: (CharSequence) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform =
transform)
}

```

Splits this char sequence into a sequence of strings each not exceeding the given [size]. The last string in the resulting sequence may have fewer characters than the given [size]. @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence. @sample

```

samples.collections.Collections.Transformations.chunked

```

@SinceKotlin("1.2")

```

public fun CharSequence.chunkedSequence(size: Int): Sequence<String> {
    return chunkedSequence(size) { it.toString() }
}

```

Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to an each. @return sequence of results of the [transform] applied to an each char sequence. Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it. The last char sequence may have fewer characters than the given [size]. @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence. @sample

```

samples.text.Strings.chunkedTransformToSequence

```

@SinceKotlin("1.2")

```

public fun <R>
CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {
    return windowedSequence(size, size, partialWindows
= true, transform = transform)
}

```

Splits the original char sequence into pair of char sequences, where \*first\* char sequence contains characters for which [predicate] yielded `true`, while \*second\* char sequence contains characters for which [predicate] yielded `false`. @sample

```

samples.text.Strings.partition

```

@public inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence>

```

{
    val first = StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first, second)
}

```

Splits the original string into pair of strings, where \*first\* string contains characters for which [predicate] yielded `true`, while \*second\* string contains characters for which [predicate] yielded `false`. @sample

```

samples.text.Strings.partition

```

@public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String>

```

{
    val first =
StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first.toString(),
second.toString())
}

```

Returns a list of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string. Several last strings may have fewer characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence. @param size the number of elements to take in each window @param step the number of elements to move the window forward by on an each step, by default 1 @param partialWindows controls whether or not to keep partial windows

in the end if any, by default `false` which means partial windows won't be preserved

```

@sample
samples.collections.Sequences.Transformations.takeWindows
@SinceKotlin("1.2")
public fun
CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {
    return
    windowed(size, step, partialWindows) { it.toString() }
}

```

Returns a list of results of applying the given [transform] function to an each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step]. Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it. Several last char sequences may have fewer characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence. @param size the number of elements to take in each window @param step the number of elements to move the window forward by on an each step, by default 1 @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

```

@sample
samples.collections.Sequences.Transformations.averageWindows
@SinceKotlin("1.2")
public fun <R>
CharSequence.windowed(size: Int, step: Int = 1, partialWindows:
Boolean = false, transform: (CharSequence) -> R): List<R> {
    checkWindowSizeStep(size, step)
    val thisSize = this.length
    val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
    val result =
    ArrayList<R>(resultCapacity)
    var index = 0
    while (index in 0 until thisSize) {
        val end = index + size
        val coercedEnd = if (end < 0 || end > thisSize) {
            if (partialWindows) thisSize else break
        } else end
        result.add(transform(subSequence(index,
        coercedEnd)))
        index += step
    }
    return result
}

```

Returns a sequence of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string. Several last strings may have fewer characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence. @param size the number of elements to take in each window @param step the number of elements to move the window forward by on an each step, by default 1 @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

```

@sample
samples.collections.Sequences.Transformations.takeWindows
@SinceKotlin("1.2")
public fun
CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false):
Sequence<String> {
    return
    windowedSequence(size, step, partialWindows) { it.toString() }
}

```

Returns a sequence of results of applying the given [transform] function to an each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step]. Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it. Several last char sequences may have fewer characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence. @param size the number of elements to take in each window @param step the number of elements to move the window forward by on an each step, by default 1 @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

```

@sample
samples.collections.Sequences.Transformations.averageWindows
@SinceKotlin("1.2")
public fun <R>
CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:
(CharSequence) -> R): Sequence<R> {
    checkWindowSizeStep(size, step)
    val windows = (if
    (partialWindows) indices else 0 until length - size + 1) step step
    return windows.asSequence().map { index ->
    val end = index + size
    val coercedEnd = if (end < 0 || end > length) length else end
    transform(subSequence(index, coercedEnd)) }
}

```

Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index. The returned list has length of the shortest char sequence. @sample samples.text.Strings.zip @public infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> { return

```

zip(other) { c1, c2 -> c1 to c2 } } \n \n /** \n * Returns a list of values built from the characters of `this` and the
[other] char sequences with the same index \n * using the provided [transform] function applied to each pair of
characters. \n * The returned list has length of the shortest char sequence. \n * \n * @sample
samples.text.Strings.zipWithTransform \n * \n public inline fun <V> CharSequence.zip(other: CharSequence,
transform: (a: Char, b: Char) -> V): List<V> { \n    val length = minOf(this.length, other.length) \n    val list =
ArrayList<V>(length) \n    for (i in 0 until length) { \n        list.add(transform(this[i], other[i])) \n    } \n    return
list \n } \n \n /** \n * Returns a list of pairs of each two adjacent characters in this char sequence. \n * \n * The returned
list is empty if this char sequence contains less than two characters. \n * \n * @sample
samples.collections.Collections.Transformations.zipWithNext \n * \n @SinceKotlin("1.2") \n public fun
CharSequence.zipWithNext(): List<Pair<Char,
Char>> { \n    return zipWithNext { a, b -> a to b } \n } \n \n /** \n * Returns a list containing the results of applying the
given [transform] function \n * to an each pair of two adjacent characters in this char sequence. \n * \n * The returned
list is empty if this char sequence contains less than two characters. \n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas \n * \n @SinceKotlin("1.2") \n public
inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> { \n    val size = length - 1 \n
if (size < 1) return emptyList() \n    val result = ArrayList<R>(size) \n    for (index in 0 until size) { \n
result.add(transform(this[index], this[index + 1])) \n    } \n    return result \n } \n \n /** \n * Creates an [Iterable] instance
that wraps the original char sequence returning its characters when being iterated. \n * \n public fun
CharSequence.asIterable(): Iterable<Char> { \n    if (this is String && isEmpty()) return emptyList() \n
return Iterable { this.iterator() } \n } \n \n /** \n * Creates a [Sequence] instance that wraps the original char sequence
returning its characters when being iterated. \n * \n public fun CharSequence.asSequence(): Sequence<Char> { \n    if
(this is String && isEmpty()) return emptySequence() \n    return Sequence { this.iterator() } \n } \n \n /** \n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n
*\n \n @file:kotlin.jvm.JvmMultifileClass \n @file:kotlin.jvm.JvmName("StringsKt") \n \n package
kotlin.text \n \n import kotlin.contracts.contract \n import kotlin.jvm.JvmName \n \n /** \n * Returns a copy of this string
converted to upper case using the rules of the default locale. \n * \n @Deprecated("Use uppercase() instead.\",
ReplaceWith("uppercase()")) \n @DeprecatedSinceKotlin(warningSince = "1.5") \n public expect fun
String.toUpperCase(): String \n \n /** \n
*\n * Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale. \n * \n *
This function supports one-to-many and many-to-one character mapping, \n * thus the length of the returned string
can be different from the length of the original string. \n * \n * @sample samples.text.Strings.uppercase \n
*\n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalStdlibApi::class) \n public expect fun
String.uppercase(): String \n \n /** \n * Returns a copy of this string converted to lower case using the rules of the
default locale. \n * \n @Deprecated("Use lowercase() instead.\",
ReplaceWith("lowercase()")) \n @DeprecatedSinceKotlin(warningSince = "1.5") \n public expect fun
String.toLowerCase(): String \n \n /** \n * Returns a copy of this string converted to lower case using Unicode
mapping rules of the invariant locale. \n * \n * This function supports one-to-many and many-to-one character
mapping, \n * thus the length of the returned string can be different
from the length of the original string. \n * \n * @sample samples.text.Strings.lowercase \n
*\n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalStdlibApi::class) \n public expect fun
String.lowercase(): String \n \n /** \n * Returns a copy of this string having its first letter titlecased using the rules
of the default locale, \n * or the original string if it's empty or already starts with a title case letter. \n * \n * The title case
of a character is usually the same as its upper case with several exceptions. \n * \n * The particular list of characters with
the special title case form depends on the underlying platform. \n * \n * @sample samples.text.Strings.capitalize \n
*\n @Deprecated("Use replaceFirstChar instead.\", ReplaceWith("replaceFirstChar { if (it.isLowerCase())
it.titlecase() else it.toString() }")) \n @DeprecatedSinceKotlin(warningSince = "1.5") \n public expect fun
String.capitalize(): String \n \n /** \n * Returns a copy of this string having its first letter lowercased using the rules

```

of the default locale, or the original string if it's empty or already starts with a lower case letter.

```

@sample samples.text.Strings.decapitalize
@Deprecated("Use replaceFirstChar instead.")
ReplaceWith("replaceFirstChar { it.lowercase() }")
@DeprecatedSinceKotlin(warningSince = "1.5")
expect fun String.decapitalize(): String
Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed.
public inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {
    var startIndex = 0
    var endIndex = length - 1
    var startFound = false
    while (startIndex <= endIndex) {
        val index = if (!startFound) startIndex else endIndex
        val match = predicate(this[index])
        if (!startFound) {
            if (!match) startFound = true
            else startIndex += 1
        } else {
            if (!match) break
            else endIndex -= 1
        }
    }
    return subSequence(startIndex, endIndex + 1)
}
Returns a string having leading and trailing characters matching the [predicate] removed.
public inline fun String.trim(predicate: (Char) -> Boolean): String = (this as CharSequence).trim(predicate).toString()
Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.
public inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {
    for (index in this.indices)
        if (!predicate(this[index]))
            return subSequence(index, length)
    return ""
}
Returns a string having leading characters matching the [predicate] removed.
public inline fun String.trimStart(predicate: (Char) -> Boolean): String = (this as CharSequence).trimStart(predicate).toString()
Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.
public inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {
    for (index in this.indices.reversed())
        if (!predicate(this[index]))
            return subSequence(0, index + 1)
    return ""
}
Returns a string having trailing characters matching the [predicate] removed.
public inline fun String.trimEnd(predicate: (Char) -> Boolean): String = (this as CharSequence).trimEnd(predicate).toString()
Returns a sub sequence of this char sequence having leading and trailing characters from the [chars] array removed.
public fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }
Returns a string having leading and trailing characters from the [chars] array removed.
public fun String.trim(vararg chars: Char): String = trim { it in chars }
Returns a sub sequence of this char sequence having leading characters from the [chars] array removed.
public fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }
Returns a string having leading characters from the [chars] array removed.
public fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }
Returns a sub sequence of this char sequence having trailing characters from the [chars] array removed.
public fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }
Returns a string having trailing characters from the [chars] array removed.
public fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }
Returns a sub sequence of this char sequence having leading and trailing whitespace removed.
public fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)
Returns a string having leading and trailing whitespace removed.
@kotlin.internal.InlineOnly
public inline fun String.trim(): String = (this as CharSequence).trim().toString()
Returns a sub sequence of this char sequence having leading whitespace removed.
public fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)
Returns a string having leading whitespace removed.
@kotlin.internal.InlineOnly
public inline fun String.trimStart(): String = (this as CharSequence).trimStart().toString()
Returns a sub sequence of this char sequence having trailing whitespace removed.
public fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)
Returns a string having trailing whitespace removed.
@kotlin.internal.InlineOnly
public inline fun String.trimEnd(): String = (this as CharSequence).trimEnd().toString()
Returns a char sequence with content of this char sequence padded at the beginning to the specified [length] with the specified character or space.
@param length the desired string length.
@param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.
@return Returns a char sequence of length at least [length] consisting of

```



```

`this` char sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample
samples.text.Strings.padStart\n *^\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '):
CharSequence {\n if (length < 0)\n throw IllegalArgumentException("\Desired length $length is less than
zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n sb.append(this)\n return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n *
*\n * @param length the desired string length.\n * @param padChar the character to
pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a
string of length at least [length] consisting of `this` string prepended with [padChar] as many times\n * as are
necessary to reach that length.\n * @sample samples.text.Strings.padStart\n *^\npublic fun String.padStart(length:
Int, padChar: Char = ' '): String =\n (this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns
a char sequence with content of this char sequence padded at the end\n * to the specified [length] with the specified
character or space.\n **\n * @param length the desired string length.\n * @param padChar the character to pad string
with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a char sequence
of length at least [length] consisting of `this` char sequence appended with [padChar] as many times\n * as are
necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n
*\npublic fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\n if (length < 0)\n
throw IllegalArgumentException("\Desired length $length is less than zero.")\n if (length <= this.length)\n
return this.subSequence(0, this.length)\n\n val sb = StringBuilder(length)\n sb.append(this)\n for (i in
1..(length - this.length))\n sb.append(padChar)\n return sb\n}\n\n/**\n * Pads the string to the specified
[length] at the end with the specified character or space.\n **\n * @param length the desired string length.\n *
*\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by
default.\n * @return Returns a string of length at least [length] consisting of `this` string appended with [padChar]
as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n *^\npublic fun
String.padEnd(length: Int, padChar: Char = ' '): String =\n (this
as CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is
either `null` or empty.\n **\n * @sample samples.text.Strings.stringOrNullEmpty\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n contract {\n
returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null || this.length == 0\n}\n\n/**\n *
Returns `true` if this char sequence is empty (contains no characters).\n **\n * @sample
samples.text.Strings.stringIsEmpty\n *^\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty():
Boolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n **\n * @sample
samples.text.Strings.stringIsNotEmpty\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//public fun
String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\n\n/**\n *
Returns `true` if this char sequence is not empty and contains some characters except of whitespace characters.\n
*\n * @sample samples.text.Strings.stringIsNotBlank\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either
`null` or empty or consists solely of whitespace characters.\n **\n * @sample
samples.text.Strings.stringOrNullBlank\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence?.isNullOrBlank(): Boolean {\n contract {\n returns(false) implies (this@isNullOrBlank !=
null)\n }\n\n return this == null || this.isBlank()\n}\n\n/**\n * Iterator for characters of the given char sequence.\n
*\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n private var index = 0\n\n
public override fun nextChar(): Char = get(index++)\n\n public override fun hasNext(): Boolean = index <
length\n}\n\n/**\n
Returns the string if it is not `null`, or the empty string otherwise. *\n@kotlin.internal.InlineOnly\npublic inline fun
String?.orEmpty(): String = this ?: ""\n\n/**\n * Returns this char sequence if it's not empty\n * or the result of
calling [defaultValue] function if the char sequence is empty.\n **\n * @sample samples.text.Strings.stringIfEmpty\n

```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.isEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =\n    if (isEmpty()) defaultValue() else this\n/>\n * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,\n * or the result of calling [defaultValue] function otherwise.\n * @sample samples.text.Strings.stringIfBlank\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.isBlank(defaultValue: () -> R): R where C : CharSequence, C : R =\n    if (isBlank()) defaultValue() else this\n/>\n * Returns the range of valid character indices for this char sequence.\n *\npublic val CharSequence.indices: IntRange\n    get() = 0..length - 1\n/>\n * Returns the index of the last character in the char sequence or -1 if it is empty.\n *\npublic val CharSequence.lastIndex: Int\n    get() = this.length - 1\n/>\n * Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].\n *\npublic fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n    return index in 0..length - 2\n        && this[index].isHighSurrogate()\n        && this[index + 1].isLowSurrogate()\n}\n/>\n * Returns a substring specified by the given [range] of indices.\n *\npublic fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\n/>\n * Returns a subsequence of this char sequence specified by the given [range] of indices.\n *\npublic fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)\n/>\n * Returns a subsequence of this char sequence.\n * This extension is chosen only for invocation with old-named parameters.\n * Replace parameter names with the same as those of [CharSequence.subSequence].\n
*\n@kotlin.internal.InlineOnly\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false\nwarning\n@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex = start, endIndex = end)"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)\n/>\n * Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].\n * @param startIndex the start index (inclusive).\n * @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()\n/>\n * Returns a substring of chars at indices from the specified [range] of this char sequence.\n *\npublic fun CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()\n/>\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n/>\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n/>\n * Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n/>\n * Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\n}\n/>\n * Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n/>\n * Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun

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String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

Returns a substring after the last occurrence of [delimiter].
If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

public fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + 1, length)
}

Returns a substring after the last occurrence of [delimiter].
If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.

public fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)
}

Returns a char sequence with content of this char sequence where its part at the given range is replaced with the [replacement] char sequence.
@param startIndex the index of the first character to be replaced.
@param endIndex the index of the first character after the replacement to keep in the string.

public fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {
    if (endIndex < startIndex)
        throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
    val sb = StringBuilder()
    sb.appendRange(this, 0, startIndex)
    sb.append(replacement)
    sb.appendRange(this, endIndex, length)
    return sb
}

Replaces the part of the string at the given range with the [replacement] char sequence.
@param startIndex the index of the first character to be replaced.
@param endIndex the index of the first character after the replacement to keep in the string.

@kotlin.internal.InlineOnly
public inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =
    (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()

Returns a char sequence with content of this char sequence where its part at the given [range] is replaced with the [replacement] char sequence.
The end index of the [range] is included in the part to be replaced.

public fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =
    replaceRange(range.start, range.endInclusive + 1, replacement)

Replace the part of string at the given [range] with the [replacement] string.
The end index of the [range] is included in the part to be replaced.

@kotlin.internal.InlineOnly
public inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String =
    (this as CharSequence).replaceRange(range, replacement).toString()

Returns a char sequence with content of this char sequence where its part at the given range is removed.
@param startIndex the index of the first character to be removed.
@param endIndex the index of the first character after the removed part to keep in the string.
[endIndex] is not included in the removed part.

public fun CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {
    if (endIndex < startIndex)
        throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
    if (endIndex == startIndex)
        return this.subSequence(0, length)
    val sb = StringBuilder(length - (endIndex - startIndex))
    sb.appendRange(this, 0, startIndex)
    sb.appendRange(this, endIndex, length)
    return sb
}

Removes the part of a string at a given range.
@param startIndex the index of the first character to be removed.
@param endIndex the index of the first character after the removed part to keep in the string.
[endIndex] is not included in the removed part.

@kotlin.internal.InlineOnly
public inline fun String.removeRange(startIndex: Int, endIndex: Int): String =
    (this as CharSequence).removeRange(startIndex, endIndex).toString()

Returns a char sequence with content of this char sequence where its part at the given [range] is removed.
The end index of the [range] is included in the removed part.

public fun CharSequence.removeRange(range: IntRange): CharSequence =
    removeRange(range.start, range.endInclusive + 1)

Removes the part of a string at the given [range].
The end index of the [range] is included in the removed part.

@kotlin.internal.InlineOnly
public inline fun String.removeRange(range: IntRange): String =
    (this as CharSequence).removeRange(range).toString()

If this char sequence starts with the given [prefix], returns a new char sequence with the prefix removed. Otherwise, returns a new char sequence with the same characters.

public fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {
    if

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(startsWith(prefix)) {\n    return subSequence(prefix.length, length)\n } \n return subSequence(0,
length)\n}\n\n/**\n * If this
string starts with the given [prefix], returns a copy of this string\n * with the prefix removed. Otherwise, returns this
string.\n */\npublic fun String.removePrefix(prefix: CharSequence): String {\n    if (startsWith(prefix)) {\n
return substring(prefix.length)\n    }\n    return this\n}\n\n/**\n * If this char sequence ends with the given [suffix],
returns a new char sequence\n * with the suffix removed. Otherwise, returns a new char sequence with the same
characters.\n */\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\n    if
(endsWith(suffix)) {\n    return subSequence(0, length - suffix.length)\n    }\n    return subSequence(0,
length)\n}\n\n/**\n * If this string ends with the given [suffix], returns a copy of this string\n * with the suffix
removed. Otherwise, returns this string.\n */\npublic fun String.removeSuffix(suffix: CharSequence): String {\n    if
(endsWith(suffix)) {\n    return substring(0, length - suffix.length)\n
}\n    return this\n}\n\n/**\n * When this char sequence starts with the given [prefix] and ends with the given
[suffix],\n * returns a new char sequence having both the given [prefix] and [suffix] removed.\n * Otherwise returns
a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(prefix:
CharSequence, suffix: CharSequence): CharSequence {\n    if ((length >= prefix.length + suffix.length) &&
startsWith(prefix) && endsWith(suffix)) {\n    return subSequence(prefix.length, length - suffix.length)\n    }\n
return subSequence(0, length)\n}\n\n/**\n * Removes from a string both the given [prefix] and [suffix] if and only
if\n * it starts with the [prefix] and ends with the [suffix].\n * Otherwise returns this string unchanged.\n */\npublic
fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n    if ((length >=
prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n    return substring(prefix.length,
length - suffix.length)\n    }\n    return this\n}\n\n/**\n * When this char sequence starts with and ends with the
given [delimiter],\n * returns a new char sequence having this [delimiter] removed both from the start and end.\n *
Otherwise returns a new char sequence with the same characters.\n */\npublic fun
CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter,
delimiter)\n\n/**\n * Removes the given [delimiter] string from both the start and the end of this string\n * if and
only if it starts with and ends with the [delimiter].\n * Otherwise returns this string unchanged.\n */\npublic fun
String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n\n/**\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n * If the string
does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic
fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n
val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(0, index,
replacement)\n}\n\n/**\n * Replace part of string before the first occurrence of given delimiter with the
[replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults
to the original string.\n */\npublic fun String.replaceBefore(delimiter: String, replacement: String,
missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1)
missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string after the first
occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfter(delimiter:
Char, replacement: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n
return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n * If the string does
not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun
String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n    val
index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(index +
delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfterLast(delimiter:

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String, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length,
replacement)
}

/** Replace part of string after the last occurrence of given delimiter with the [replacement]
string.
* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original
string.
*/
public fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String
= this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else
replaceRange(index + 1, length, replacement)
}

/** Replace part of string before the last occurrence of
given delimiter with the [replacement] string.
* If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.
*/
public fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String =
this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else
replaceRange(0, index, replacement)
}

/** Replace part of string before the last occurrence of given
delimiter with the [replacement] string.
* If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.
*/
public fun String.replaceBeforeLast(delimiter:
String, replacement: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)
}

// public fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific
// public fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific

/** Returns a new string obtained by replacing each substring of this char sequence that matches the given regular
expression
* with the given [replacement].
* The [replacement] can consist of any combination of literal text
and $-substitutions. To treat the replacement string
* literally escape it with the
[kotlin.text.Regex.Companion.escapeReplacement] method.
*/
@kotlin.internal.InlineOnly
public inline fun
CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)

/** Returns a new string obtained by replacing each substring of this char sequence that matches the given regular
expression
* with the result of the given function [transform] that takes [MatchResult] and returns a string to be
used as a
* replacement for that match.
*/
@kotlin.internal.InlineOnly
public inline fun
CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =
regex.replace(this, transform)

/** Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified
[replacement]
expression.
* @param replacement A replacement expression that can include substitutions. See
[Regex.replaceFirst] for details.
*/
@kotlin.internal.InlineOnly
public inline fun
CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this,
replacement)

/** Returns a copy of this string having its first character replaced with the result of the
specified [transform],
* or the original string if it's empty.
* @param transform function that takes the first
character and returns the result of the transform applied to the character.
*/
@sample
samples.text.Strings.replaceFirstChar

/** Since Kotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@JvmName("replaceFirstCharWithChar")
public
inline fun String.replaceFirstChar(transform: (Char) -> Char): String {
    return if (isEmpty())
transform(this[0]) + substring(1) else this
}

/** Returns a copy of this string having its first character
replaced with the result of the specified [transform],
* or the original string if it's empty.
*/
@sample
samples.text.Strings.replaceFirstChar

/** Since Kotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@JvmName("replaceFirstCharWithCharSequence")
public inline fun String.replaceFirstChar(transform: (Char) ->
CharSequence): String {
    return if (isEmpty()) transform(this[0]).toString() + substring(1) else

```

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this) returns true if this char sequence
matches the given regular expression.
CharSequence.matches(regex: Regex): Boolean = regex.matches(this)
Implementation of
[regionMatches] for CharSequences.
Invoked when it's already known that arguments are not Strings, so that no
additional type checks are performed.
internal fun CharSequence.regionMatchesImpl(thisOffset: Int, other:
CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {
    if ((otherOffset < 0) || (thisOffset <
0) || (thisOffset > this.length - length) || (otherOffset > other.length - length))
        return false
    for (index in 0 until length)
        if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))
            return false
    return true
}
Returns true if this char sequence starts with the specified
character.
public fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false):
Boolean = this.length > 0 && this[0].equals(char, ignoreCase)
Returns true if this char sequence
ends with the specified character.
public fun CharSequence.endsWith(char: Char, ignoreCase: Boolean =
false): Boolean = this.length > 0 && this[lastIndex].equals(char, ignoreCase)
Returns true if this
char sequence starts with the specified prefix.
public fun CharSequence.startsWith(prefix: CharSequence,
ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase && this is String && prefix is String)
        return
this.startsWith(prefix)
    else
        return regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)
}
Returns true if a substring of this char sequence starting at the specified offset
[startIndex] starts with the specified
prefix.
public fun CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean =
false): Boolean {
    if (!ignoreCase && this is String && prefix is
String)
        return this.startsWith(prefix, startIndex)
    else
        return regionMatchesImpl(startIndex, prefix,
0, prefix.length, ignoreCase)
}
Returns true if this char sequence ends with the specified suffix.
public fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {
    if
(ignoreCase && this is String && suffix is String)
        return this.endsWith(suffix)
    else
        return
regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)
}
Returns the longest string `prefix` such that this char sequence and [other] char
sequence both start
with this prefix, taking care not to split surrogate pairs.
If this and [other] have no common prefix, returns
the empty string.
@param ignoreCase `true` to ignore character case when matching a character. By
default `false`.
@sample samples.text.Strings.commonPrefixWith
public fun
CharSequence.commonPrefixWith(other:
CharSequence, ignoreCase: Boolean = false): String {
    val shortestLength = minOf(this.length, other.length)
    var i = 0
    while (i < shortestLength && this[i].equals(other[i], ignoreCase = ignoreCase))
        i++
    if (this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1))
        i--
    return subSequence(0,
i).toString()
}
Returns the longest string `suffix` such that this char sequence and [other] char
sequence
both end with this suffix, taking care not to split surrogate pairs.
If this and [other] have no common suffix,
returns the empty string.
@param ignoreCase `true` to ignore character case when matching a character. By
default `false`.
@sample samples.text.Strings.commonSuffixWith
public fun
CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {
    val thisLength =
this.length
    val otherLength = other.length
    val
shortestLength = minOf(thisLength, otherLength)
    var i = 0
    while (i < shortestLength && this[thisLength -
i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase))
        i++
    if
(this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength -
i - 1))
        i--
    return subSequence(thisLength - i, thisLength).toString()
}
indexOfAny()
Returns the index of the
first occurrence of any of the specified [chars] in this char sequence, starting from
the specified [startIndex] and
optionally ignoring the case.
@param ignoreCase `true` to ignore character case when matching a character.
By default `false`.
@return An index of the first occurrence of matched character from [chars] or -1 if
none of
[chars] are found.
public fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase:
Boolean = false): Int {
    if (!ignoreCase && chars.size == 1 && this is String)

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    {\n    val char = chars.single()\n    return nativeIndexOf(char, startIndex)\n  }\n\n  for (index in
startIndex.coerceAtLeast(0)..lastIndex) {\n    val charAtIndex = get(index)\n    if (chars.any {
it.equals(charAtIndex, ignoreCase) })\n      return index\n  }\n  return -1\n}\n\n/**\n * Finds the index of the
last occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and
optionally ignoring the case.\n * @param startIndex The index of character to start searching at. The search
proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when
matching a character. By default `false`.\n * @return An index of the last occurrence of matched character from
[chars] or -1 if none of [chars] are found.\n */\n\npublic fun CharSequence.lastIndexOfAny(chars: CharArray,
startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n  if (!ignoreCase
&& chars.size == 1 && this is String) {\n    val char = chars.single()\n    return nativeLastIndexOf(char,
startIndex)\n  }\n\n  for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n    val charAtIndex =
get(index)\n    if (chars.any { it.equals(charAtIndex, ignoreCase) })\n      return index\n  }\n\n  return -
1\n}\n\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase:
Boolean, last: Boolean = false): Int {\n  val indices = if (!last)\n    startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n  else\n    startIndex.coerceAtMost(lastIndex)
downTo endIndex.coerceAtLeast(0)\n\n  if (this is String && other is String) { // smart cast\n    for (index in
indices) {\n      if (other.regionMatches(0, this, index, other.length, ignoreCase))\n        return index\n    }\n  } else {\n    for (index in indices) {\n      if (other.regionMatchesImpl(0, this,
index, other.length, ignoreCase))\n        return index\n    }\n  }\n\n  return -1\n}\n\nprivate fun
CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean):
Pair<Int, String>? {\n  if (!ignoreCase && strings.size == 1) {\n    val string = strings.single()\n    val index =
if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)\n    return if (index < 0) null else index to
string\n  }\n\n  val indices = if (!last) startIndex.coerceAtLeast(0)..length else startIndex.coerceAtMost(lastIndex)
downTo 0\n\n  if (this is String) {\n    for (index in indices) {\n      val matchingString = strings.firstOrNull {
it.regionMatches(0, this, index, it.length, ignoreCase) }\n      if (matchingString != null)\n        return index
to matchingString\n    }\n  } else {\n    for (index in indices) {\n      val matchingString =
strings.firstOrNull { it.regionMatchesImpl(0,
this, index, it.length, ignoreCase) }\n      if (matchingString != null)\n        return index to matchingString\n    }\n  }\n\n  return null\n}\n\n/**\n * Finds the first occurrence of any of the specified [strings] in this char
sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n * @param ignoreCase
`true` to ignore character case when matching a string. By default `false`.\n * @return A pair of an index of the first
occurrence of matched string from [strings] and the string matched\n * or `null` if none of [strings] are found.\n */\n
* To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n *
the beginning to the end of this string, and finds at each position the first element in [strings]\n * that matches this
string at that position.\n */\n\npublic fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0,
ignoreCase: Boolean = false): Pair<Int,
String>? =\n  findAnyOf(strings, startIndex, ignoreCase, last = false)\n\n/**\n * Finds the last occurrence of any of
the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the
case.\n * @param startIndex The index of character to start searching at. The search proceeds backward toward
the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By
default `false`.\n * @return A pair of an index of the last occurrence of matched string from [strings] and the string
matched or `null` if none of [strings] are found.\n */\n
* To avoid ambiguous results when strings in [strings] have
characters in common, this method proceeds from\n * the end toward the beginning of this string, and finds at each
position the first element in [strings]\n * that matches this string at that position.\n */\n\npublic fun
CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex,
ignoreCase: Boolean = false): Pair<Int, String>? =\n  findAnyOf(strings, startIndex, ignoreCase, last =
true)\n\n/**\n * Finds the index of the first occurrence of any of the specified [strings] in this char sequence,\n *
starting from the specified [startIndex] and optionally ignoring the case.\n * @param ignoreCase `true` to ignore

```

character case when matching a string. By default `false`.  
 @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.  
 \* To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [strings] that matches this string at that position.  
 ^public fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int = findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1

Finds the index of the last occurrence of any of the specified [strings] in this char sequence, starting from the specified [startIndex] and optionally ignoring the case.  
 \* @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.  
 \* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.  
 \* @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.  
 \* To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the end toward the beginning of this string, and finds at each position the first element in [strings] that matches this string at that position.  
 ^public fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndexOfAny(strings, startIndex, ignoreCase, last = true)?.first ?: -1

indexOf  
 \* Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].  
 \* @param ignoreCase `true` to ignore character case when matching a character. By default `false`.  
 \* @return An index of the first occurrence of [char] or -1 if none is found.  
 ^public fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int { return if (ignoreCase || this !is String) indexOfAny(charArrayOf(char), startIndex, ignoreCase) else nativeIndexOf(char, startIndex)}

indexOf  
 \* Returns the index within this char sequence of the first occurrence of the specified [string], starting from the specified [startIndex].  
 \* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.  
 \* @return An index of the first occurrence of [string] or -1 if none is found.  
 \* @sample samples.text.Strings.indexOf  
 ^public fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int { return if (ignoreCase || this !is String) indexOf(string, startIndex, length, ignoreCase) else nativeIndexOf(string, startIndex)}

lastIndexOf  
 \* Returns the index within this char sequence of the last occurrence of the specified character, starting from the specified [startIndex].  
 \* @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.  
 \* @param ignoreCase `true` to ignore character case when matching a character. By default `false`.  
 \* @return An index of the last occurrence of [char] or -1 if none is found.  
 ^public fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndexOf(char, startIndex, ignoreCase, last = true))

lastIndexOf  
 \* Returns the index within this char sequence of the last occurrence of the specified [string], starting from the specified [startIndex].  
 \* @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.  
 \* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.  
 \* @return An index of the last occurrence of [string] or -1 if none is found.  
 ^public fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndexOf(string, startIndex, 0, ignoreCase, last = true))

contains  
 \* Returns `true` if this char sequence contains the specified character [char].  
 \* @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.  
 ^public operator fun CharSequence.contains(char: Char)



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Char, ignoreCase: Boolean = false): Boolean = indexOf(char, ignoreCase = ignoreCase) >= 0\n\n/**\n * Returns
`true` if this char sequence contains at least one match of the specified regular expression [regex].\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean =
regex.containsMatchIn(this)\n\n// rangesDelimitedBy\n\nprivate class
DelimitedRangesSequence(\n private val input: CharSequence,\n private val startIndex: Int,\n private val
limit: Int,\n private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, Int>?) :
Sequence<IntRange> {\n\n override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {\n var
nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n var currentStartIndex: Int =
startIndex.coerceIn(0, input.length)\n var nextSearchIndex: Int = currentStartIndex\n var nextItem:
IntRange? = null\n var counter: Int = 0\n\n private fun calcNext() {\n if (nextSearchIndex < 0) {\n
nextState = 0\n nextItem = null\n } else {\n if (limit > 0 && ++counter >= limit ||
nextSearchIndex > input.length) {\n nextItem = currentStartIndex..input.lastIndex\n
nextSearchIndex = -1\n } else {\n
val match = input.getNextMatch(nextSearchIndex)\n if (match == null) {\n nextItem
= currentStartIndex..input.lastIndex\n nextSearchIndex = -1\n } else {\n val
(index, length) = match\n nextItem = currentStartIndex until index\n currentStartIndex
= index + length\n nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0\n }\n
}\n nextState = 1\n }\n }\n\n override fun next(): IntRange {\n if (nextState ==
-1)\n calcNext()\n if (nextState == 0)\n throw NoSuchElementException()\n val
result = nextItem as IntRange\n // Clean next to avoid keeping reference on yielded instance\n
nextItem = null\n nextState = -1\n return result\n
}\n\n override fun hasNext(): Boolean {\n if (nextState == -1)\n calcNext()\n return
nextState == 1\n }\n }\n}\n\n/**\n * Returns a sequence of index ranges of substrings in this char sequence
around occurrences of the specified [delimiters].\n * @param delimiters One or more characters to be used as
delimiters.\n * @param startIndex The index to start searching delimiters from.\n * No range having its start value
less than [startIndex] is returned.\n * [startIndex] is coerced to be non-negative and not greater than length of this
string.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n *
@param limit The maximum number of substrings to return. Zero by default means no limit is set.\n */\nprivate fun
CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int
= 0): Sequence<IntRange> {\n requireNonNegativeLimit(limit)\n\n
return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\n indexOfAny(delimiters,
currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 } })\n}\n\n/**\n * Returns a sequence
of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n * @param
delimiters One or more strings to be used as delimiters.\n * @param startIndex The index to start searching
delimiters from.\n * No range having its start value less than [startIndex] is returned.\n * [startIndex] is coerced to
be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case
when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero
by default means no limit is set.\n * @param last To avoid ambiguous results when strings in [delimiters] have characters in
common, this method proceeds from\n * the beginning to the end
of this string, and finds at each position the first element in [delimiters]\n * that matches this string at that
position.\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0,
ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n requireNonNegativeLimit(limit)\n val
delimitersList = delimiters.asList()\n return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->
findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length }
})\n}\n\ninternal fun requireNonNegativeLimit(limit: Int) =\n require(limit >= 0) { "Limit must be non-
negative, but was $limit" }\n\n// split\n\n/**\n * Splits this char sequence to a sequence of strings around
occurrences of the specified [delimiters].\n * @param delimiters One or more strings to be used as delimiters.\n
* @param ignoreCase `true` to ignore character case when matching a delimiter. By default

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`false`.n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.n *
* To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from
* the beginning to the end of this string, and finds at each position the first element in [delimiters].n * that matches
this string at that position.n */npublic fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase:
Boolean = false, limit: Int = 0): Sequence<String> =n    rangesDelimitedBy(delimiters, ignoreCase = ignoreCase,
limit = limit).map { substring(it) }n/n/**n * Splits this char sequence to a list of strings around occurrences of the
specified [delimiters].n * @param delimiters One or more strings to be used as delimiters.n * @param
ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.n * @param limit The
maximum number of substrings to return. Zero by default means no limit is set.n */n
* To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from
* the beginning to the end of this string, and matches at each position the first element in [delimiters].n * that is
equal to a delimiter in this instance at that position.n */npublic fun CharSequence.split(vararg delimiters: String,
ignoreCase: Boolean = false, limit: Int = 0): List<String> {n    if (delimiters.size == 1) {n        val delimiter =
delimiters[0]n        if (!delimiter.isEmpty()) {n            return split(delimiter, ignoreCase, limit)n        }n    }n
return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it)
}n}n/n/**n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].n
*n * @param delimiters One or more characters to be used as delimiters.n * @param ignoreCase `true` to ignore
character case when matching a delimiter. By default `false`.n
* @param limit The maximum number of substrings to return.n */npublic fun
CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
Sequence<String> =n    rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it)
}n/n/**n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].n *n *
@param delimiters One or more characters to be used as delimiters.n * @param ignoreCase `true` to ignore
character case when matching a delimiter. By default `false`.n * @param limit The maximum number of substrings
to return.n */npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
List<String> {n    if (delimiters.size == 1) {n        return split(delimiters[0].toString(), ignoreCase, limit)n    }n
return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it)
}n}n/n/**n * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].n * This is specialized
version of split which receives single non-empty delimiter and offers better performance.n *n * @param delimiter
String used as delimiter.n * @param ignoreCase `true` to ignore character case when matching a delimiter. By
default `false`.n * @param limit The maximum number of substrings to return.n */nprivate fun
CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {n
requireNonNegativeLimit(limit)n    var currentOffset = 0n    var nextIndex = indexOf(delimiter, currentOffset,
ignoreCase)n    if (nextIndex == -1 || limit == 1) {n        return listOf(this.toString())n    }n    val isLimited =
limit > 0n    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)n    do {n
result.add(substring(currentOffset, nextIndex))n        currentOffset = nextIndex + delimiter.lengthn        //
Do not search for next occurrence if we're reaching limitn        if (isLimited && result.size == limit - 1) breakn
nextIndex = indexOf(delimiter, currentOffset, ignoreCase)n    } while (nextIndex != -1)n
result.add(substring(currentOffset, length))n    return resultn}n/n/**n * Splits this char sequence to a list of
strings around matches of the given regular expression.n *n * @param limit Non-negative value specifying the
maximum number of substrings to return.n * Zero by default means no limit is set.n
*/n@kotlin.internal.InlineOnlynpublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
regex.split(this, limit)n/n/**n * Splits this char sequence to a sequence of strings around matches of the given
regular expression.n *n * @param limit Non-negative value specifying the maximum number of substrings to
return.n * Zero by default means no limit is set.n * @sample samples.text.Strings.splitToSequencen
*/n@SinceKotlin("1.6")n@WasExperimental(ExperimentalStdlibApi::class)n@kotlin.internal.InlineOnlynpublic

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inline fun CharSequence.splitToSequence(regex: Regex, limit: Int = 0): Sequence<String> =
    regex.splitToSequence(this, limit)\n\n/**\n * Splits this char sequence to a sequence of lines delimited by any of the
following character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line
separators.\n */\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence("\\r\\n", "\\n",
"\\r")\n\n/**\n * Splits this char sequence to a list of lines delimited by any of the following character sequences:
CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\npublic fun
CharSequence.lines(): List<String> = lineSequence().toList()\n\n/**\n * Returns `true` if the contents of this char
sequence are equal to the contents of the specified [other],\n *\n * i.e. both char sequences contain the same number of
the same characters in the
same order.\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin("1.5")\npublic expect infix
fun CharSequence?.contentEquals(other: CharSequence?): Boolean\n\n/**\n * Returns `true` if the contents of this
char sequence are equal to the contents of the specified [other], optionally ignoring case difference.\n *\n * @param
ignoreCase `true` to ignore character case when comparing contents.\n *\n * @sample
samples.text.Strings.contentEquals\n */\n@SinceKotlin("1.5")\npublic expect fun
CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean\n\ninternal fun
CharSequence?.contentEqualsIgnoreCaseImpl(other: CharSequence?): Boolean {\n    if (this is String && other is
String) {\n        return this.equals(other, ignoreCase = true)\n    }\n    if (this === other) return true\n    if (this ==
null || other == null || this.length != other.length) return false\n    for (i in 0 until length) {\n        if
(!this[i].equals(other[i], ignoreCase = true))\n            {\n                return false\n            }\n    }\n    return true\n}\n\ninternal fun CharSequence?.contentEqualsImpl(other:
CharSequence?): Boolean {\n    if (this is String && other is String) {\n        return this == other\n    }\n    if (this
=== other) return true\n    if (this == null || other == null || this.length != other.length) return false\n    for (i in 0
until length) {\n        if (this[i] != other[i]) {\n            return false\n        }\n    }\n    return true\n}\n\n/**\n *
Returns `true` if the content of this string is equal to the word "true", `false` if it is equal to "false",\n *\n * and throws
an exception otherwise.\n *\n * There is also a lenient version of the function available on nullable String,
[String?.toBoolean].\n *\n * Note that this function is case-sensitive.\n *\n * @sample
samples.text.Strings.toBooleanStrict\n */\n@SinceKotlin("1.5")\npublic fun String.toBooleanStrict(): Boolean =
when (this) {\n    "true" -> true\n    "false" -> false\n    else -> throw IllegalArgumentException("The string doesn't represent a boolean value: $this")\n}\n\n/**\n *
Returns `true` if the content of this string is equal to the word "true", `false` if it is equal to "false",\n *\n * and `null`
otherwise.\n *\n * There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n
*\n * Note that this function is case-sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrictOrNull\n
*/\n@SinceKotlin("1.5")\npublic fun String.toBooleanStrictOrNull(): Boolean? = when (this) {\n    "true" ->
true\n    "false" -> false\n    else -> null\n},"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class UByteArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ByteArray) :
Collection<UByte> {\n    /** Creates a new array of the specified [size], with all elements initialized to zero. *\n
*/\n    public constructor(size: Int) : this(ByteArray(size))\n    /**\n     * Returns the array element at the given [index].
This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public
operator fun get(index: Int): UByte = storage[index].toUByte()\n    /**\n     * Sets the element at the given [index]
to the given [value]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds
of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is
unspecified.\n     */\n    public operator fun set(index: Int, value:
UByte) {\n        storage[index] = value.toByte()\n    }\n    /** Returns the number of elements in the array. *\n
*/\n    public override val size: Int get() = storage.size\n    /** Creates an iterator over the elements of the array. *\n
*/\n

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public override operator fun iterator(): kotlin.collections.Iterator<UByte> = Iterator(storage)\n
@Suppress("DEPRECATION_ERROR")\n private class Iterator(private val array: ByteArray) : UByteIterator()
{\n private var index = 0\n override fun hasNext() = index < array.size\n override fun nextUByte() = if
(index < array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())\n }\n
override fun contains(element: UByte): Boolean {\n // TODO: Eliminate this check after KT-30016 gets
fixed.\n // Currently JS BE does not generate special bridge method for this method.\n
@Suppress("USELESS_CAST")\n if ((element as Any?) !is UByte) return false\n
return storage.contains(element.toByte())\n }\n\n override fun containsAll(elements: Collection<UByte>):
Boolean {\n return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n }\n
override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size],
where each element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for
each array element sequentially starting from the first one.\n * It should return the value for an array element given
its index.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n return UByteArray(ByteArray(size) { index ->
init(index).toByte()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n",/*\n
* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated
file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class
UIntArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt>
{\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\n public
constructor(size: Int) : this(IntArray(size))\n\n /**\n * Returns the array element at the given [index]. This
method can be called using the index operator.\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public
operator fun get(index: Int): UInt = storage[index].toUInt()\n\n /**\n * Sets the element at the given [index] to the
given [value]. This method can be called using the index
operator.\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except
in Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun set(index: Int, value: UInt) {\n
storage[index] = value.toInt()\n }\n\n /** Returns the number of elements in the array. */\n public override
val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array. */\n public override
operator fun iterator(): kotlin.collections.Iterator<UInt> = Iterator(storage)\n\n
@Suppress("DEPRECATION_ERROR")\n private class Iterator(private val array: IntArray) : UIntIterator() {\n
private var index = 0\n override fun hasNext() = index < array.size\n override fun nextUInt() = if (index
< array.size) array[index++].toUInt() else throw NoSuchElementException(index.toString())\n
}\n\n override fun contains(element: UInt): Boolean {\n // TODO: Eliminate this check after KT-30016 gets
fixed.\n // Currently JS BE does not generate special bridge method for this method.\n
@Suppress("USELESS_CAST")\n if ((element as Any?) !is UInt) return false\n\n return
storage.contains(element.toInt())\n }\n\n override fun containsAll(elements: Collection<UInt>): Boolean {\n
return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\n }\n\n override fun
isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each array
element sequentially starting from the first one.\n * It should return the value for an array element given its
index.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n return UIntArray(IntArray(size) { index ->
init(index).toInt()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

uintArrayOf(vararg elements: UInt): UIntArray = elements\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class ULongArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: LongArray) :
Collection<ULong> {\n\n    /** Creates a new array of the specified [size], with all elements initialized to zero. */\n
    public constructor(size: Int) : this(LongArray(size))\n\n    /**\n     * Returns the array element at the given [index]. This method can be called using the index operator.\n
    *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
    * where the behavior is unspecified.\n     */\n    public operator fun get(index: Int): ULong =
storage[index].toULong()\n\n    /**\n     * Sets the element at the given [index] to the given [value]. This method can
be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public
operator fun set(index: Int, value: ULong) {\n        storage[index] = value.toLong()\n    }\n\n    /** Returns the
number of elements in the array. */\n    public override val size: Int get() = storage.size\n\n    /** Creates an iterator
over the elements of the array. */\n    public override operator fun iterator():
kotlin.collections.Iterator<ULong> = Iterator(storage)\n\n    @Suppress("DEPRECATION_ERROR")\n    private
class Iterator(private val array: LongArray) : ULongIterator() {\n        private var index = 0\n        override fun
hasNext() = index < array.size\n        override fun nextULong() = if (index < array.size) array[index++].toULong()
else throw NoSuchElementException(index.toString())\n    }\n\n    override fun contains(element: ULong): Boolean
{\n        // TODO: Eliminate this check after KT-30016 gets fixed.\n        // Currently JS BE does not generate
special bridge method for this method.\n        @Suppress("USELESS_CAST")\n        if ((element as Any?) !is
ULong) return false\n        return storage.contains(element.toLong())\n    }\n\n    override fun
containsAll(elements: Collection<ULong>): Boolean {\n        return (elements as Collection<*>).all { it is ULong
&& storage.contains(it.toLong()) }\n    }\n\n    override fun isEmpty(): Boolean = this.storage.size == 0\n\n    /**\n
     * Creates a new array of the specified [size], where each element is calculated by calling the specified\n     * [init]
function.\n     */\n    *\n     * The function [init] is called for each array element sequentially starting from the first one.\n     * It
should return the value for an array element given its index.\n     */\n\n    @SinceKotlin("1.3")\n    @ExperimentalUnsignedTypes\n    @kotlin.internal.InlineOnly\n    public inline fun
ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n        return ULongArray(LongArray(size) { index ->
init(index).toLong()
})\n    }\n\n    @SinceKotlin("1.3")\n    @ExperimentalUnsignedTypes\n    @kotlin.internal.InlineOnly\n    public inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class UShortArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) :
Collection<UShort> {\n\n    /** Creates a new array of the specified [size], with all elements initialized to zero. */\n
    public constructor(size: Int) : this(ShortArray(size))\n\n    /**\n     * Returns the array element at the given [index].
This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public
operator fun get(index: Int): UShort = storage[index].toUShort()\n\n    /**\n     * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n     *\n     * If the [index] is out of
bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where
the behavior is unspecified.\n     */\n    public operator fun set(index: Int, value: UShort) {\n        storage[index] =
value.toShort()\n    }\n\n    /** Returns the number of elements in the array. */\n    public override val size: Int get()
= storage.size\n\n    /** Creates an iterator over the elements of the array. */\n    public override operator fun
iterator(): kotlin.collections.Iterator<UShort> = Iterator(storage)\n\n    @Suppress("DEPRECATION_ERROR")\n

```

```

private class Iterator(private val array: ShortArray) : UShortIterator() {
    private var index = 0
    override fun hasNext() = index < array.size
    override fun nextUShort() = if (index < array.size)
array[index++].toUShort() else throw NoSuchElementException(index.toString())
}
override fun contains(element: UShort): Boolean {
    // TODO: Eliminate this check after KT-30016 gets fixed.
    // Currently JS BE does not generate special bridge method for this method.
    @Suppress("USELESS_CAST")
    if ((element as Any?) !is UShort) return false
    return storage.contains(element.toShort())
}
override fun containsAll(elements: Collection<UShort>): Boolean {
    return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }
}
override fun isEmpty(): Boolean = this.storage.size == 0
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified [init] function.
 * The function [init] is called for each array element sequentially starting from the first one.
 * It should return the value for an array element given its index.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {
    return UShortArray(ShortArray(size) { index -> init(index).toShort() })
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements

"/
 * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UArraysKt")
@file:kotlin.jvm.JvmPackageName("kotlin.collections.unsigned")
package kotlin.collections
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component1(): UInt {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component1(): ULong {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.component1(): UByte {
    return get(0)
}

/**
 * Returns 1st *element* from the array.
 * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.component1(): UShort {
    return get(0)
}

/**
 * Returns 2nd *element* from the array.
 * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS
 * where the behavior is unspecified.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.component2(): UInt {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * If the size of this
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.component2(): ULong {
    return get(1)
}

/**
 * Returns 2nd *element* from the array.
 * If the size of this
 */

```

array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n \*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \*\n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\n return get(1)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \*\n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component3(): UInt {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \*\n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component3(): ULong {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \*\n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component3(): UByte {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \*\n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component3(): UShort {\n return get(2)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \*\n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component4(): UInt {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \*\n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component4(): ULong {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \*\n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component4(): UByte {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \*\n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component4(): UShort {\n return get(3)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \*\n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component5(): UInt {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \*\n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component5(): ULong {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \*\n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the

behavior is unspecified.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component5(): UByte {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *\n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the  
behavior is unspecified.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component5():
```

```
UShort {\n    return get(4)\n}\n\n/**\n * Returns an element at the given [index] or throws an  
[IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAt\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int):  
UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is  
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int):  
ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]  
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int):  
UByte\n\n/**\n
```

```
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of  
bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int):  
UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the  
[index] is out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAtOrElse\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=  
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of  
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAtOrElse\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 &&  
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the  
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAtOrElse\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index  
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result  
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAtOrElse\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 &&  
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or  
'null' if the [index] is out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAtOrNull\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.elementAtOrNull(index: Int): UInt? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element  
at the given [index] or 'null' if the [index] is out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAtOrNull\n
```



```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrNull(index:
Int): ULong? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if
the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrNull(index: Int): UByte? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrNull(index: Int): UShort? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if no such element
was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n    return
lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n
    return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun ULongArray.first(): ULong {\n    return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.first(): UByte {\n    return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws\n [NoSuchElementException] if the array is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.first(): UShort {\n    return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching\n the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n    for (element in this) if (predicate(element))\nreturn element\n    throw NoSuchElementException("Array contains no element matching the\npredicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws\n [NoSuchElementException] if no such element is found.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.first(predicate: (ULong) -> Boolean): ULong {\n    for (element in this) if (predicate(element)) return\n element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such\n element is found.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.first(predicate:\n (UByte) -> Boolean): UByte {\n    for (element in this) if (predicate(element)) return element\n    throw\n NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first\n element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.first(predicate: (UShort) -> Boolean): UShort {\n    for (element in this) if (predicate(element)) return\n element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n    return\n if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic\nfun ULongArray.firstOrNull(): ULong? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first\n element, or `null` if the array is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nUByteArray.firstOrNull(): UByte? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first\n element, or `null` if the array is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nUShortArray.firstOrNull(): UShort? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first\n element matching the given [predicate], or `null` if element was not found.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (element in this) if (predicate(element)) return\n element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element\n was not\n found.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline\nfun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (element in this) if\n (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given\n [predicate], or `null` if element was not found.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (element in this) if (predicate(element))\nreturn element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if\n element was not found.\n */

```

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns
    an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.getOrNull(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.getOrNull(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.getOrNull(index: Int): UInt? {\n    return if (index >= 0 && index <= lastIndex) get(index)
else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int): UShort? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):
ULong? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n *\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
{\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n *\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index:
Int): UShort? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOf(element: UInt): Int {\n    return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOf(element: ULong): Int {\n    return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOf(element: UByte): Int {\n    return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns
first index of [element], or -1 if the
    array does not contain element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOf(element: UShort): Int {\n    return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns
index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n

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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n  return storage.indexOfFirst { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain
such element.\n */\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n  return storage.indexOfFirst {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the
given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n  return storage.indexOfFirst {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n  return storage.indexOfFirst {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n  return storage.indexOfLast { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.\n */\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n  return storage.indexOfLast {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n  return storage.indexOfLast {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfLast(predicate: (UShort) ->
Boolean): Int {\n  return storage.indexOfLast { predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n
*\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(): UInt {\n  return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n */\n * @throws
NoSuchElementException if the array is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(): ULong {\n  return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n */\n * @throws
NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.last(): UByte {\n  return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n
*\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(): UShort {\n  return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching
the given [predicate].\n */\n * @throws NoSuchElementException if no such element is found.\n */\n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n  for (index in this.indices.reversed()) {\n    val element =

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this[index]\n    if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains
no element matching the predicate.")\n}\n\n/**\n
 * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such
element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n    for (index in this.indices.reversed()) {\n
        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n    for (index in this.indices.reversed()) {\n
        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns last index
of [element], or -1 if the array does not contain element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastIndexOf(element: UInt):
    Int {\n        return storage.lastIndexOf(element.toInt())\n    }\n\n/**\n * Returns last index of [element], or -1 if the array
does not contain element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n    return storage.lastIndexOf(element.toLong())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastIndexOf(element: UByte): Int {\n    return storage.lastIndexOf(element.toByte())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastIndexOf(element: UShort): Int {\n    return storage.lastIndexOf(element.toShort())\n}\n\n/**\n *
Returns the last element, or `null` if the array is
empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.lastOrNull(): UShort? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n  for (index in this.indices.reversed()) {\n    val
element = this[index]\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n  for (index in this.indices.reversed()) {\n
val element = this[index]\n
    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the
given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n  for (index in this.indices.reversed()) {\n
val element = this[index]\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n  for (index in this.indices.reversed()) {\n
val element = this[index]\n
    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n  return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n
* \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.random(): ULong {\n  return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n  return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException
if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.random(): UShort {\n  return random(Random)\n}\n\n/**\n * Returns a random element from this
array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element
from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array
is empty.\n * \n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random:
Random): UByte {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random):
UShort {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return

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get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n *\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UIntArray.randomOrNull():\n    UInt? {\n        return randomOrNull(Random)\n    }\n\n /**\n * Returns a random element from this array, or `null` if this\n array is empty.\n *\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULongArray.randomOrNull(): ULong? {\n        return\n randomOrNull(Random)\n    }\n\n /**\n * Returns a random element from this array, or `null` if this array is empty.\n *\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByteArray.randomOrNull(): UByte? {\n        return\n randomOrNull(Random)\n    }\n\n /**\n * Returns a random element from this array, or `null` if this array is empty.\n *\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UShortArray.randomOrNull(): UShort? {\n        return\n randomOrNull(Random)\n    }\n\n /**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is\n empty.\n *\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun UIntArray.randomOrNull(random: Random): UInt? {\n        if (isEmpty())\n            return null\n        return\n get(random.nextInt(size))\n    }\n\n /**\n * Returns a random element from this array using the specified source of\n randomness, or `null` if this array is empty.\n *\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun ULongArray.randomOrNull(random: Random): ULong? {\n        if (isEmpty())\n            return null\n        return\n get(random.nextInt(size))\n    }\n\n /**\n * Returns a random element from this array using the specified source of\n randomness, or `null` if this array is empty.\n *\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun UByteArray.randomOrNull(random:\n    Random): UByte? {\n        if (isEmpty())\n            return null\n        return get(random.nextInt(size))\n    }\n\n /**\n * Returns\n a random element from this array using the specified source of randomness, or `null` if this array is empty.\n *\n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun UShortArray.randomOrNull(random: Random): UShort? {\n        if (isEmpty())\n            return null\n        return\n get(random.nextInt(size))\n    }\n\n /**\n * Returns the single element, or throws an exception if the array is empty or\n has more than one element.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n UIntArray.single(): UInt {\n        return storage.single().toUInt()\n    }\n\n /**\n * Returns the single element, or throws an\n exception if the array is empty or has more than one element.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n ULongArray.single(): ULong {\n        return storage.single().toULong()\n    }\n\n /**\n * Returns the single element, or\n throws an exception if the array is empty or has more than one element.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n UByteArray.single(): UByte {\n        return storage.single().toUByte()\n    }\n\n /**\n * Returns the single element, or\n throws an exception if the array is empty or has more than one element.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n UShortArray.single(): UShort {\n        return storage.single().toUShort()\n    }\n\n /**\n * Returns the single element\n matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n        var single: UInt? = null\n        var found =\n false\n        for (element in this) {\n            if (predicate(element)) {\n                if (found) throw\n IllegalArgumentException("Array contains more than one matching element.")\n                single = element\n            }\n        }\n        return single\n    }\n

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found = true\n    }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UInt\n}\n\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n    var single: ULong? = null\n    var found =
false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentOutOfRangeException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching the
predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as ULong\n}\n\n/**\n * Returns the single
element matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n    var single: UByte? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentOutOfRangeException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching the
predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UByte\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n    var single: UShort? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentOutOfRangeException("Array contains more than one matching element.")\n            single = element\n
found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element matching the
predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UShort\n}\n\n/**\n * Returns single element, or `null` if
the array is empty or has more than one element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.singleOrNull(): UInt? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element,
or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.singleOrNull(): ULong? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element,
or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.singleOrNull(): UByte? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element,
or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.singleOrNull(): UShort? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n    var single: UInt? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n
found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n    var single: ULong? = null\n    var found
= false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single =
element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found

```



or more than one element was found.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n    var single: UByte? = null\n    var found =
false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single =
element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n    var single: UShort? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n
            single
= element\n            found
= true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements
except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing
all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.drop\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.drop\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int):
List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.dropLast(n: Int): List<UByte> {\n    require(n >= 0) { \"Requested element count $n is less than
zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):
List<UShort> {\n    require(n >= 0) { \ "Requested element count $n is less than zero.\" }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte>
{\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n
        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy
the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex downTo
0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropWhile(predicate: (UInt)
-> Boolean): List<UInt> {\n    var yielding = false\n    val list = ArrayList<UInt>()\n    for (item in this)\n        if
(yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n
        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    var yielding = false\n    val list =
ArrayList<ULong>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
{\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    var yielding = false\n    val list =
ArrayList<UByte>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
{\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    var yielding = false\n    val list =
ArrayList<UShort>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
{\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n

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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n  return filterTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n  return filterTo(ArrayList<UShort>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n  return
filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n  return
filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n  return
filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n  return
filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate]
to the given [destination].\n * @param [predicate] function that takes the
index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n *
@sample samples.collections.Collections.Filtering.filterIndexedTo\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C
{\n  forEachIndexed { index, element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <C :

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MutableCollection<in

```
ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {\n
forEachIndexed { index, element ->\n    if (predicate(index, element)) destination.add(element)\n } \n return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) ->
Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    } \n    return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the
given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) ->
Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    } \n    return destination\n}\n\n/**\n * Returns a list containing all elements not
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n    return filterNotTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n    return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n    return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n    return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n    for
(element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C
{\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n *
Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n    for
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(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n
for (element in this) if (!predicate(element))
  destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n
for (element
in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n
for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n
* Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n
for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n
* Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n
for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n
* Returns a list containing elements
at indices in the specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.slice(indices: IntRange): List<UInt> {\n
if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.slice(indices: IntRange): List<ULong> {\n
if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.slice(indices: IntRange): List<UByte> {\n
if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices
in the specified [indices] range.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.slice(indices: IntRange): List<UShort> {\n
if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.slice(indices: Iterable<Int>): List<UInt> {\n
val size = indices.collectionSizeOrDefault(10)\n
if (size == 0) return emptyList()\n
val list = ArrayList<UInt>(size)\n
for (index in indices) {\n
list.add(get(index))\n
}\n
return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>):
List<ULong> {\n
val size = indices.collectionSizeOrDefault(10)\n
if (size == 0) return emptyList()\n
val list =
ArrayList<ULong>(size)\n

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    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ByteArray.slice(indices: Iterable<Int>): List<UByte> {\n    val size = indices.collectionSizeOrDefault(10)\n    if
(size == 0) return emptyList()\n    val list = ArrayList<UByte>(size)\n    for (index in indices) {\n
list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>):
List<UShort> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list =
ArrayList<UShort>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n *
Returns an array containing elements of this array at specified
[indices].\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices:
Collection<Int>): UIntArray {\n    return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices:
Collection<Int>): ULongArray {\n    return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices:
Collection<Int>): UByteArray {\n    return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices:
Collection<Int>): UShortArray {\n    return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n *\n * Returns an array containing elements at indices in the specified [indices] range.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange):
UIntArray {\n    return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sliceArray(indices: IntRange): ULongArray {\n    return
ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sliceArray(indices: IntRange): UByteArray {\n    return
UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.sliceArray(indices:
IntRange): UShortArray {\n    return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list
containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UInt>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun ULongArray.take(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than
zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n
var count = 0\n    val list = ArrayList<ULong>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count ==
n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n

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require(n >= 0) { \"Requested element count $n is less than zero.\" } \n  if (n == 0) return emptyList()\n  if (n >=
size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<UByte>(n)\n  for
(item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >=
size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<UShort>(n)\n  for
(item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns
a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n:
Int): List<UInt> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return
emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list
= ArrayList<UInt>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val
size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list =
ArrayList<ULong>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val
size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list =
ArrayList<UByte>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort>
{\n  require(n >= 0) { \"Requested element
count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n
if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<UShort>(n)\n  for (index in size - n until size)\n
list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  for (index in lastIndex downTo 0) {\n
if (!predicate(this[index]))\n    return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list
containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n    }\n  }\n  return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  for (index in lastIndex downTo 0)

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{\n    if (!predicate(this[index])) {\n        return drop(index + 1)\n    }\n } \n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex\n downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return\n toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    val list = ArrayList<UInt>()\n    for (item in\n this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list\n containing first elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    val list = ArrayList<ULong>()\n    for\n (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing\n first elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    val list = ArrayList<UByte>()\n    for\n (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing\n first elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UShortArray.takeWhile(predicate:\n (UShort) -> Boolean): List<UShort> {\n    val list = ArrayList<UShort>()\n    for (item in this) {\n        if\n (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the\n array in-place.\n * \n * @sample\n samples.collections.Collections.Transformations.reverse\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun UIntArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n * @sample\n samples.collections.Collections.Transformations.reverse\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n ULongArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n * \n * @sample\n samples.collections.Collections.Transformations.reverse\n
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*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UShortArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements of the array in the specified\n range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end\n of the range (exclusive) to reverse.\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero\n or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater\n than [toIndex].\n * \n * @sample\n samples.collections.Collections.Transformations.reverse\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex,\n toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex\n the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the\n size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample\n samples.collections.Collections.Transformations.reverse\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range\n (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws\n IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the\n size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample\n samples.collections.Collections.Transformations.reverse\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range\n (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws\n IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the\n size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample\n samples.collections.Collections.Transformations.reverse\n
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*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range\n (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws\n IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the\n size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample\n samples.collections.Collections.Transformations.reverse\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n

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IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*  
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n
 * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range
(exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Returns a list with elements in reversed order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.reversed(): List<UInt> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.reversed(): List<ULong> {\n
    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns
a list with elements in reversed order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.reversed(): List<UByte> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.reversed(): List<UShort> {\n
    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns
an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reversedArray(): UIntArray {\n    return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an
array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reversedArray(): ULongArray {\n    return ULongArray(storage.reversedArray())\n}\n\n/**\n * Returns an
array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reversedArray(): UByteArray {\n    return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns
an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reversedArray(): UShortArray {\n    return UShortArray(storage.reversedArray())\n}\n\n/**\n *
Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(): Unit {\n
    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic
fun ULongArray.shuffle(): Unit {\n    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-
place.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(): Unit {\n
    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(): Unit {\n
    shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random]
instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(random: Random): Unit
{\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] =
this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles
elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements
in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(random: Random):
Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =
this[j]\n this[j] = copy\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their
natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements
in the array in-place descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n if
(size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(): Unit {\n if
(size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending
according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a
list of all elements sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted(): List<UInt> {\n return
copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort
order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sorted():
List<ULong> {\n return copyOf().apply { sort()
}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n
return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted():
List<UShort> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this
array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray
{\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n
if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray
{\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending():
UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns

```

an array with all elements of this array sorted descending according to their natural sort order.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending():
ULongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
```

Returns an array with all elements of this array sorted descending according to their natural sort order.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending():
UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
```

Returns an array with all elements of this array sorted descending according to their natural sort order.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending():
UShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
```

Returns a list of all elements sorted

descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
```

Returns a list of all elements sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending():
List<ULong> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
```

Returns a list of all elements sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending(): List<UByte> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
```

Returns a list of all elements sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending():
List<UShort> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n *
```

Returns an array of type `[ByteArray]`, which is a view of this array where each element is a signed reinterpretation\n \* of the corresponding element of this array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.asByteArray(): ByteArray {\n return storage\n}\n\n/**\n *
```

Returns an array of type `[IntArray]`, which is a view of this array where each element is a signed reinterpretation\n \* of the corresponding element of this array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.asIntArray(): IntArray {\n return storage\n}\n\n/**\n *
```

Returns a `[List]` that wraps the original array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList():
List<UInt>\n\n/**\n *
```

Returns a `[List]` that wraps the original array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList():
List<ULong>\n\n/**\n *
```

Returns a `[List]` that wraps the original array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList():
List<UByte>\n\n/**\n *
```

Returns a `[List]` that wraps the original array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList():
List<UShort>\n\n/**\n *
```

Returns an array of type `[LongArray]`, which is a view of this array where each element is a signed reinterpretation\n \* of the corresponding element of this array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.asLongArray(): LongArray {\n return storage\n}\n\n/**\n *
```

Returns an array of type `[ShortArray]`, which is a view of this array where each element is a signed reinterpretation\n \* of the corresponding element of this array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.asShortArray(): ShortArray {\n return storage\n}\n\n/**\n *
```

Returns an array of type `[UByteArray]`, which is a view of this array where each element is an unsigned reinterpretation\n \* of the corresponding element of this array.\n

```
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.asUByteArray(): UByteArray {\n return UByteArray(this)\n}\n\n/**\n *
```

Returns an array of type

```

[UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n
 * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.asUIntArray(): UIntArray {\n    return UIntArray(this)\n}\n\n/**\n * Returns an array of type
[ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.asULongArray(): ULongArray {\n    return ULongArray(this)\n}\n\n/**\n * Returns an array of type
[UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.asUShortArray(): UShortArray {\n    return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally*\n * equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n
return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*
equal to
one another,\n * i.e. contain the same number of the same elements in the same order.\n *
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray):
Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally*
equal to one another,\n * i.e. contain the same number of the same elements in the same
order.\n *
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray): Boolean
{\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*
equal
to one another,\n * i.e. contain the same number of the same elements in the same order.\n *
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray):
Boolean {\n    return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are
*structurally*
equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun
UIntArray?.contentEquals(other: UIntArray?): Boolean {\n    return
this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*
equal
to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray?.contentEquals(other:
ULongArray?): Boolean {\n    return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if
the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same
elements
in the same order.\n *
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun
UByteArray?.contentEquals(other: UByteArray?): Boolean {\n    return
this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*
equal
to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray?.contentEquals(other:
UShortArray?): Boolean {\n    return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns a hash
code
based on the contents of this array as if it is [List].\n *
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid

```

```

deprecation warning.\")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n    return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n    return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n\n@Deprecated("Use Kotlin
compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n    return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n    return
this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it
is [List].\n */\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray?.contentHashCode():
Int {\n    return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this
array as if it is [List].\n */\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray?.contentHashCode(): Int {\n    return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash
code based on the contents of this array as if it is [List].\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentHashCode(): Int {\n
return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n */\n\n@sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n    return
this.contentToString()\n}\n\n/**\n * Returns
a string representation of the contents of the specified array as if it is [List].\n */\n\n@sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n\n@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.\")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n    return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it
is [List].\n */\n\n@sample samples.collections.Arrays.ContentOperations.contentToString\n */\n\n@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n    return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it
is [List].\n */\n\n@sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n    return
this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it
is [List].\n */\n\n@sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of

```

the specified array as if it is [List].\n \* \n \* @sample  
samples.collections.Arrays.ContentOperations.contentToString\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentToString(): String {\n
return this?.joinToString(", ", "[",
"]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n
* \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentToString(): String {\n
return this?.joinToString(", ", "[", "]") ?: "null"\n}\n\n/**\n * Copies this array or its subrange into the
[destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n * \n * @param destination
the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n
* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end
(exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UIntArray {\n
storage.copyInto(destination.storage,
destinationOffset, startIndex, endIndex)\n
return destination\n}\n\n/**\n * Copies this array or its subrange into
the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even
specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy
to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param
startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive)
of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n
*\n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
ULongArray {\n
storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n
*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
```

```

UByteArray {n storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)n return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with
the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position
in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to
copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n
* \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is
out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int
= size): UShortArray {n storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)n return
destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOf(): UIntArray {n return UIntArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array which is
a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfOf(): ULongArray {n return ULongArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.copyOfOf(): UByteArray {n return UByteArray(storage.copyOfOf())\n}\n\n/**\n * Returns new
array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfOf(): UShortArray {n return UShortArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at
the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array
is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the
copy array are filled with zero values.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOf(newSize: Int): UIntArray {n return UIntArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfOf(newSize: Int): ULongArray {n return ULongArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater
than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfOf(newSize: Int): UByteArray {n return UByteArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*/

```

array, the extra elements in the copy array are filled with zero values.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.copyOf(newSize: Int): UShortArray {\n    return UShortArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified\n * range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param\n * toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is\n * less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if\n * [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n    return\n    UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the\n * specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * \n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if\n * [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\n * IllegalArgumentException if\n * [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return\n    ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the\n * specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * \n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if\n * [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\n * IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return\n    UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the\n * specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * \n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if\n * [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\n * IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n    return\n    UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the\n * specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * \n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws\n * IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this\n * array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex:\n    Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array\n * or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to\n * fill, 0 by default.\n * \n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this\n * array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong,\n    fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange\n * with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by\n * default.\n * \n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws\n
```



IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*  
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte,  
fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n *  
 * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range  
 * (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by  
 * default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than  
 * the  
 * size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort,  
fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n *  
 * Returns the range of valid indices for the array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n    get()  
= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n    get()  
= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n    get()  
= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic  
inline val UShortArray.indices: IntRange\n    get() = storage.indices\n\n/**\n * Returns the last valid index for the  
array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n    get()  
= storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n    get()  
= storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n    get()  
= storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n    get()  
= storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given  
[element].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline operator fun UIntArray.plus(element: UInt): UIntArray {\n    return UIntArray(storage +  
element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given  
[element].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline  
operator fun ULongArray.plus(element: ULong): ULongArray {\n    return ULongArray(storage +  
element.toLong())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given  
[element].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline  
operator fun UByteArray.plus(element: UByte): UByteArray {\n    return UByteArray(storage +  
element.toByte())\n}\n\n/**\n * Returns an array containing all elements of the original array + and then the given  
[element].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline  
operator fun UShortArray.plus(element:  
UShort): UShortArray {\n    return UShortArray(storage + element.toShort())\n}\n\n/**\n * Returns an array  
containing all elements of the original array and then all elements of the given [elements] collection.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UIntArray.plus(elements:  
Collection<UInt>): UIntArray {\n    var index = size\n    val result = storage.copyOf(size + elements.size)\n    for  
(element in elements) result[index++] = element.toInt()\n    return UIntArray(result)\n}\n\n/**\n * Returns an array  
containing all elements of the original array and then all elements of the given [elements] collection.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongArray.plus(elements:  
Collection<ULong>): ULongArray {\n    var index = size\n    val result = storage.copyOf(size + elements.size)\n    for  
(element in elements) result[index++] = element.toLong()\n    return ULongArray(result)\n}\n\n/**\n * Returns
```

```

an array containing all elements of the original array and then all elements of the given [elements] collection.
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UByteArray.plus(elements:
Collection<UByte>): UByteArray {\n    var index = size\n    val result = storage.copyOf(size + elements.size)\n
for (element in elements) result[index++] = element.toByte()\n    return UByteArray(result)\n}\n\n/**\n * Returns
an array containing all elements of the original array and then all elements of the given [elements] collection.
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UShortArray.plus(elements:
Collection<UShort>): UShortArray {\n    var index = size\n    val result = storage.copyOf(size + elements.size)\n
for (element in elements) result[index++] = element.toShort()\n    return UShortArray(result)\n}\n\n/**\n * Returns
an array containing all elements of the original array and then all elements of the given [elements]
array.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UIntArray.plus(elements: UIntArray): UIntArray {\n    return UIntArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.plus(elements: ULongArray): ULongArray {\n    return ULongArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.plus(elements: UByteArray): UByteArray {\n    return UByteArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all
elements of the given [elements] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.plus(elements: UShortArray): UShortArray {\n    return UShortArray(storage +
elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n *
@sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample
samples.collections.Arrays.Sorting.sortArray\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.sort(): Unit {\n    if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts
the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n    if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex:
Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex,
toIndex)\n}\n\n/**\n * Sorts a range in the array
in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the
end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,

```

```

fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than
zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex, toIndex)\n}\n\n/**\n *
Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their
natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end
of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex,
toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted
descending according to their
natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end
of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException
if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns an
array of type [ByteArray], which is a copy of
this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.toByteArray(): ByteArray {\n    return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n

```

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.toIntArray(): IntArray {^n return storage.copyOf()\n}\n/n/**^n * Returns an array of type [LongArray],
which is a copy of this array where each element is a signed reinterpretation^n * of the corresponding element of this
array.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.toLongArray(): LongArray {^n return storage.copyOf()\n}\n/n/**^n * Returns an array
of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation^n * of the
corresponding element of this array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.toShortArray(): ShortArray {^n return storage.copyOf()\n}\n/n/**^n * Returns a *typed* object array
containing all of the elements of this primitive array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.toTypedArray(): Array<UInt>
{^n return Array(size) { index -> this[index] }\n}\n/n/**^n * Returns a *typed* object array containing all of the
elements of this primitive array.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
ULongArray.toTypedArray(): Array<ULong> {^n return Array(size) { index -> this[index] }\n}\n/n/**^n *
Returns a *typed* object array containing all of the elements of this primitive array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public
fun UByteArray.toTypedArray(): Array<UByte> {^n return Array(size) { index -> this[index] }\n}\n/n/**^n *
Returns a *typed* object array containing all of the elements of this primitive array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UShortArray.toTypedArray():
Array<UShort> {^n return Array(size) { index -> this[index] }\n}\n/n/**^n * Returns an array of UByte containing
all of the elements of this generic array.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
Array<out UByte>.toUByteArray(): UByteArray {^n return UByteArray(size) { index -> this[index] }\n}\n/n/**^n
* Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned
reinterpretation^n * of the corresponding element of this array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ByteArray.toUByteArray(): UByteArray {^n return UByteArray(this.copyOf())\n}\n/n/**^n
* Returns an array of UInt containing all of the elements of this generic array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Array<out UInt>.toUIntArray(): UIntArray
{^n return UIntArray(size) { index -> this[index] }\n}\n/n/**^n * Returns an array of type [UIntArray], which is a
copy of this array where each element is an unsigned reinterpretation^n * of the corresponding element of this
array.^n *^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
IntArray.toUIntArray(): UIntArray {^n return UIntArray(this.copyOf())\n}\n/n/**^n * Returns an array of ULong
containing all of the elements of this generic array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Array<out ULong>.toULongArray():
ULongArray {^n return ULongArray(size) { index -> this[index] }\n}\n/n/**^n * Returns an array of type
[ULongArray], which is a copy of this array where each element is an unsigned reinterpretation^n
* of the corresponding element of this array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
LongArray.toULongArray(): ULongArray {^n return ULongArray(this.copyOf())\n}\n/n/**^n * Returns an array
of UShort containing all of the elements of this generic array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Array<out UShort>.toUShortArray():
UShortArray {^n return UShortArray(size) { index -> this[index] }\n}\n/n/**^n * Returns an array of type
[UShortArray], which is a copy of this array where each element is an unsigned reinterpretation^n * of the
corresponding element of this array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ShortArray.toUShortArray(): UShortArray {^n return UShortArray(this.copyOf())\n}\n/n/**^n * Returns a [Map]
where keys are elements from the given array and values are^n * produced by the [valueSelector] function

```

applied to each element.  
 \* If any two elements are equal, the last one gets added to the map.  
 \* The returned map preserves the entry iteration order of the original array.  
 @sample  
 samples.collections.Collections.Transformations.associateWith

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n    val result = LinkedHashMap<UInt,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are
produced by the [valueSelector] function
applied to each element.
* If any two elements are equal, the last one gets added to the map.
* The returned map preserves the entry iteration order of the original array.
* @sample
samples.collections.Collections.Transformations.associateWith
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <V> ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n    val result =
LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are
produced by the [valueSelector] function applied to each element.
* If any two elements are equal, the last one gets added to the map.
* The returned map preserves the entry iteration order of the original array.
* @sample
samples.collections.Collections.Transformations.associateWith
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n    val result =
LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are
produced by the [valueSelector]
function applied to each element.
* If any two elements are equal, the last one gets added to the map.
* The returned map preserves the entry iteration order of the original array.
* @sample
samples.collections.Collections.Transformations.associateWith
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {\n    val result =
LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,
* where key is the element itself and value is provided by the [valueSelector] function
applied to that key.
* If any two elements are equal, the last one overwrites
the former value in the map.
* @sample
samples.collections.Collections.Transformations.associateWithTo
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n    for
(element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,
* where key is the element itself and value is provided by the [valueSelector] function applied to that key.
* If any two elements are equal, the last one overwrites the former value in the map.
* @sample
samples.collections.Collections.Transformations.associateWithTo
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination:
M, valueSelector: (ULong) -> V): M {\n    for (element in this) {\n        destination.put(element,
valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs for each element of the given array,
* where key is the element itself and value is
provided by the [valueSelector] function applied to that key.
* If any two elements are equal, the last one
overwrites the former value in the map.
* @sample
samples.collections.Collections.Transformations.associateWithTo
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
```

```

MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {
for (element in this) {
    destination.put(element, valueSelector(element))
}
return
destination
}

* Populates and returns the [destination] mutable map with
key-value pairs for each element of the given array,
* where key is the element itself and value is provided by the
[valueSelector] function applied to that key.
* If any two elements are equal, the last one overwrites the
former value in the map.
* @sample samples.collections.Collections.Transformations.associateWithTo
* \n @SinceKotlin("1.4") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun <V, M :
MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M
{
for (element in this) {
    destination.put(element, valueSelector(element))
}
return
destination
}

* Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.
* @sample
samples.collections.Collections.Transformations.flatMap

* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
<R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {
return flatMapTo(ArrayList<R>(),
transform)
}

* Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.
* @sample
samples.collections.Collections.Transformations.flatMap

* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun <R>
ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {
return flatMapTo(ArrayList<R>(),
transform)
}

* Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.
* @sample
samples.collections.Collections.Transformations.flatMap

* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun <R>
UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {
return flatMapTo(ArrayList<R>(),
transform)
}

* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of
original array.
* @sample samples.collections.Collections.Transformations.flatMap

* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun <R>
UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {
return flatMapTo(ArrayList<R>(),
transform)
}

* Returns a single list of all elements yielded from results of [transform] function being
invoked on each element
* and its index in the original array.
* @sample
samples.collections.Collections.Transformations.flatMapIndexed

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun <R>
UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {
return
flatMapIndexedTo(ArrayList<R>(),
transform)
}

* Returns a single list of all elements yielded from results of [transform] function being
invoked on each element
* and its index in the original array.
* @sample
samples.collections.Collections.Transformations.flatMapIndexed

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun <R>
ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {
return
flatMapIndexedTo(ArrayList<R>(), transform)
}

* Returns a single list of all elements yielded from
results of [transform] function being invoked on each element
* and its index in the original array.
* @sample samples.collections.Collections.Transformations.flatMapIndexed

* \n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public

```

```

inline fun <R> UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
/* Returns a single list of all elements yielded from results of [transform] function being invoked on each element and its index in the original array.
@sample samples.collections.Collections.Transformations.flatMapIndexed
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}
/* Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original array, to the given [destination].
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}
/* Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original array, to the given [destination].
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}
/* Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original array, to the given [destination].
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}
/* Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original array, to the given [destination].
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(index++, element)
        destination.addAll(list)
    }
    return destination
}
/* Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/* Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/* Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
*/

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n
}\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n return
groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original
array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n return
groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and
returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map
preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n return
groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n return
groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned
by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n

```



```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\n    ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values\n * returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by\n * the given [keySelector] function applied to the element\n * and returns a map where each group key is associated\n * with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys\n * produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\n    UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values\n * returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by\n * the given [keySelector] function applied to the element\n * and returns a map where each group key is associated\n * with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys\n * produced from the original array.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupByKeyAndValues\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>\n    UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n    return\n    groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements\n * of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to\n * the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The\n * [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {\n            ArrayList<UInt>()\n        }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key\n * returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each\n * group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {\n            ArrayList<ULong>()\n        }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the\n * original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the\n * [destination] map each\n * group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {\n            ArrayList<UByte>()\n        }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the\n * original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the\n * [destination] map each\n * group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {\n            ArrayList<UShort>()\n        }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the\n * original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the\n * [destination] map each\n * group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {\n            ArrayList<UShort>()\n        }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the\n * original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the\n * [destination] map each\n * group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
```

```

destination.getOrPut(key) { ArrayList<UShort>() } \n    list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,\n M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K,\n valueTransform: (UInt) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =\n        destination.getOrPut(key) { ArrayList<V>() } \n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the\n original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,\n M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K,\n valueTransform: (ULong) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =\n        destination.getOrPut(key) { ArrayList<V>() } \n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the\n original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,\n M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K,\n valueTransform: (UByte) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =\n        destination.getOrPut(key) { ArrayList<V>() } \n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,\n M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K,\n valueTransform: (UShort) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =\n        destination.getOrPut(key) { ArrayList<V>() } \n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element\n in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n UIntArray.map(transform: (UInt) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n ULongArray.map(transform: (ULong) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),\n transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> {
    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.map(transform: (UShort) -> R): List<R> {
    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element and its index in the original array.\n * @param [transform] function that takes the index of an element and
the element itself\n * and returns the result of the transform applied to the element.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.mapIndexed(transform: (index:
Int, UInt) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list
containing the results of applying the given [transform] function\n * to each element and its index in the original
array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the
result of the transform applied to the element.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {
    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n * \n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {
    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n * \n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {
    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends the results to the given [destination].\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result
of the transform applied to the element.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {
    var
index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original array\n * and appends the results
to the given [destination].\n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {
    var
index = 0\n    for (item in this)\n        destination.add(transform(index++,
item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function\n * to each element and its index in
the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {
    var
index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n
var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n
for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R):
C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy
[Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that
element and the element itself.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
index of that element and the element itself.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {\n return IndexingIterable { iterator()
}\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue]
containing the index of that element and the element itself.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {\n return IndexingIterable { iterator()
}\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue]
containing the index of that element and the element itself.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all
elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if
(!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return
false\n  return true\n}\n\n/**\n *
Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(): Boolean {\n  return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n
*\n * @sample samples.collections.Collections.Aggregates.any\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(): Boolean {\n  return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(): Boolean {\n  return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.any(): Boolean {\n  return storage.any()\n}\n\n/**\n * Returns `true` if at least one element
matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n
return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.count(predicate: (UInt) -> Boolean): Int {\n  var count = 0\n
for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.count(predicate: (ULong) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n *\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n *\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n  var count = 0\n  for
(element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n  var accumulator = initial\n  for (element in this)

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accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator,
  element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n
* @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n  var index
= 0\n  var accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left
to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator =
  operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its
index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

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UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R { \n  var index = 0 \n  var accumulator = initial \n  for (element in this) accumulator = operation(index++, accumulator, element) \n  return accumulator \n } \n \n \n * Accumulates value starting with [initial] value and applying [operation] from right to left \n * to each element and current accumulator value. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R { \n  var index = lastIndex \n  var accumulator = initial \n  while (index >= 0) { \n    accumulator = operation(get(index--), accumulator) \n  } \n  return accumulator \n } \n \n \n * Accumulates value starting with [initial] value and applying [operation] from right to left \n * to each element and current accumulator value. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R { \n  var index = lastIndex \n  var accumulator = initial \n  while (index >= 0) { \n    accumulator = operation(get(index--), accumulator) \n  } \n  return accumulator \n } \n \n \n * Accumulates value starting with [initial] value and applying [operation] from right to left \n * to each element and current accumulator value. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R { \n  var index = lastIndex \n  var accumulator = initial \n  while (index >= 0) { \n    accumulator = operation(get(index--), accumulator) \n  } \n  return accumulator \n } \n \n \n * Accumulates value starting with [initial] value and applying [operation] from right to left \n * to each element and current accumulator value. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R { \n  var index = lastIndex \n  var accumulator = initial \n  while (index >= 0) { \n    accumulator = operation(get(index--), accumulator) \n  } \n  return accumulator \n } \n \n \n * Accumulates value starting with [initial] value and applying [operation] from right to left \n * to each element with its index in the original array and current accumulator value. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes the index of an element, the element itself \n * and current accumulator value, and calculates the next accumulator value. \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R { \n  var index = lastIndex \n  var accumulator = initial \n  while (index >= 0) { \n    accumulator = operation(index, get(index), accumulator) \n    --index \n  } \n  return accumulator \n } \n \n \n * Accumulates value starting with [initial] value and applying [operation] from right to left \n * to each element with its index in the original array and current accumulator value. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param [operation] function that takes the index of an element, the element itself \n * and current accumulator value, and calculates the next accumulator value. \n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R { \n  var index = lastIndex \n  var accumulator = initial \n  while (index >= 0) { \n    accumulator = operation(index, get(index), accumulator) \n    --index \n  } \n  return accumulator \n } \n \n \n * Accumulates value starting with [initial] value and applying [operation] from right to left \n * to each element with its index in the original array and current accumulator value. \n * \n * Returns the specified [initial] value if the array is empty. \n * \n * @param

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[operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element with its index in the original array and current accumulator value.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n * Performs the given [action] on each element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.forEach(action: (UInt) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n * Performs the given [action] on each element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.forEach(action: (ULong) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n * Performs the given [action] on each element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.forEach(action: (UByte) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n * Performs the given [action] on each element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.forEach(action: (UShort) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n @Deprecated("Use maxOrNull instead.")
```



```

ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.5`,
hiddenSince = `1.6`) \n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes\npublic fun UIntArray.max():
UInt? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.5`,
hiddenSince = `1.6`) \n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes\npublic fun ULongArray.max():
ULong? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.5`,
hiddenSince = `1.6`) \n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes\npublic fun UByteArray.max():
UByte? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.\",
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.5`,
hiddenSince = `1.6`) \n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes\npublic
fun UShortArray.max(): UShort? {\n    return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince =
`1.6`) \n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n    return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince =
`1.6`) \n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n    return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince
= `1.4`, errorSince = `1.5`, hiddenSince =
`1.6`) \n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n    return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.\",
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
`1.5`, hiddenSince =
`1.6`) \n@SinceKotlin("1.3") \n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n    return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4") \n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxByOrNull(selector:
(UInt) -> R): UInt? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n
if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n@SinceKotlin("1.4") \n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {\n    if (isEmpty()) return null\n
var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue =
v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given
function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n

```

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result

```

```

is `NaN`.n * n * @throws NoSuchElementException if the array is empty.n
*/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntArray.maxOf(selector: (UInt) -> Float): Float {n if (isEmpty()) throw NoSuchElementException()n var
maxValue = selector(this[0])n for (i in 1..lastIndex) {n val v = selector(this[i])n maxValue =
maxOf(maxValue, v)n }n return maxValue}n/n/**n * Returns the largest value among all values produced
by [selector] functionn * applied to each element in the array.n * n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.n * n * @throws NoSuchElementException if the array is empty.n
*/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun ULongArray.maxOf(selector: (ULong) -> Float): Float {n if (isEmpty()) throw
NoSuchElementException()n var maxValue = selector(this[0])n for (i in 1..lastIndex) {n val v =
selector(this[i])n maxValue = maxOf(maxValue, v)n }n return maxValue}n/n/**n * Returns the
largest value among all values produced by [selector] functionn * applied to each element in the array.n * n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.n * n * @throws
NoSuchElementException if the array is empty.n
*/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.maxOf(selector: (UByte) -> Float): Float {n if (isEmpty()) throw NoSuchElementException()n var
maxValue = selector(this[0])n for (i in 1..lastIndex) {n
val v = selector(this[i])n maxValue = maxOf(maxValue, v)n }n return maxValue}n/n/**n *
Returns the largest value among all values produced by [selector] functionn * applied to each element in the
array.n * n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.n * n *
@throws NoSuchElementException if the array is empty.n
*/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray.maxOf(selector: (UShort) -> Float): Float {n if (isEmpty()) throw NoSuchElementException()n
var maxValue = selector(this[0])n for (i in 1..lastIndex) {n val v = selector(this[i])n maxValue =
maxOf(maxValue, v)n }n return maxValue}n/n/**n * Returns the largest value among all values produced
by [selector] functionn * applied to each element in the array.n
* n * @throws NoSuchElementException if the array is empty.n
*/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {n if (isEmpty()) throw
NoSuchElementException()n var maxValue = selector(this[0])n for (i in 1..lastIndex) {n val v =
selector(this[i])n if (maxValue < v) {n maxValue = v\n }n }n return maxValue}n/n/**n *
Returns the largest value among all values produced by [selector] functionn * applied to each element in the
array.n * n * @throws NoSuchElementException if the array is empty.n
*/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>>
ULongArray.maxOf(selector: (ULong) -> R): R {n if (isEmpty()) throw NoSuchElementException()n var
maxValue = selector(this[0])n for (i in 1..lastIndex) {n val v = selector(this[i])n if (maxValue < v) {n
maxValue = v\n }n }n return maxValue}n/n/**n * Returns the largest value among all values
produced by [selector] functionn * applied to each element in the array.n * n * @throws
NoSuchElementException if the array is empty.n
*/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :

```

```

Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array.
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned
 * result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced
 * by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of
 * values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.maxOfOrNull(selector: (ULong) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the
 * largest value among all values produced by [selector] function
 * applied to each element in the array or `null` if
 * there are no elements.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.maxOfOrNull(selector: (UByte) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced
 * by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of
 * values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced
 * by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of
 * values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

/**
 * Returns the largest value among all values produced
 * by [selector] function
 * applied to each element in the array or `null` if there are no elements.
 * If any of
 * values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */

```

values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.maxOfOrNull(selector: (ULong) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n
```

```
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.maxOfOrNull(selector: (UByte) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or
```

```
`null` if there are no elements.\n * If any of values produced by [selector] function is `NaN`, the returned result\n * is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.maxOfOrNull(selector: (UShort) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> UIntArray.maxOfOrNull(selector:\n
```

```
(UInt) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> ULongArray.maxOfOrNull(selector: (ULong) -> R): R? {\n    if (isEmpty()) return null\n    var\n    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> UByteArray.maxOfOrNull(selector: (UByte) -> R): R? {\n    if (isEmpty()) return null\n    var\n    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>>\n
```

```
UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {\n    if (isEmpty()) return null\n    var maxValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
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[comparator]\n \* among all values produced by [selector] function applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxValue,
v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
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function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n    if
(isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
val v = selector(this[i])\n    if (comparator.compare(maxValue, v) < 0) {\n        maxValue = v\n    }\n}\n\n
return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n    if (isEmpty()) return
null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n    if (isEmpty())
return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n *
Returns
the largest value according to the provided [comparator]\n * among all values produced by [selector] function
applied to each element in the array or `null` if there are no elements.\n
*/\n

```

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*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <R>
UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {^n if (isEmpty())
return null^n var maxValue = selector(this[0])^n for (i in 1..lastIndex) {^n val v = selector(this[i])^n if
(comparator.compare(maxValue, v) < 0) {^n maxValue = v^n }^n }^n return maxValue^n}^n/^n/**^n *
Returns the largest value according to the provided [comparator]^n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.^n
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ByLambdaReturnType^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun <R> UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {^n
if (isEmpty()) return null^n var maxValue = selector(this[0])^n for (i in 1..lastIndex) {^n val v =
selector(this[i])^n if (comparator.compare(maxValue, v) < 0) {^n maxValue = v^n }^n }^n return
maxValue^n}^n/^n/**^n * Returns the largest element or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun UIntArray.maxOrNull(): UInt? {^n if
(isEmpty()) return null^n var max = this[0]^n for (i in 1..lastIndex) {^n val e = this[i]^n if (max < e) max
= e^n }^n return max^n}^n/^n/**^n * Returns the largest element or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun ULongArray.maxOrNull():
ULong? {^n if (isEmpty()) return null^n var max = this[0]^n for (i in 1..lastIndex) {^n val e = this[i]^n
if (max < e) max = e^n }^n return max^n}^n/^n/**^n * Returns the largest element or `null` if there are no
elements.^n *^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun UByteArray.maxOrNull():
UByte? {^n if (isEmpty()) return null^n var max = this[0]^n for (i in 1..lastIndex) {^n val e = this[i]^n if
(max < e) max = e^n }^n return max^n}^n/^n/**^n * Returns the largest element or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun UShortArray.maxOrNull(): UShort? {^n if
(isEmpty()) return null^n var max = this[0]^n for (i in 1..lastIndex) {^n val e = this[i]^n if (max < e) max
= e^n }^n return max^n}^n@Deprecated("Use maxWithOrNull instead."),
ReplaceWith("this.maxWithOrNull(comparator)")^n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince =
"1.6")^n@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.maxWith(comparator:
Comparator<in UInt>): UInt? {^n return maxWithOrNull(comparator)^n}^n@Deprecated("Use maxWithOrNull
instead.", ReplaceWith("this.maxWithOrNull(comparator)")^n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")^n@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {^n return
maxWithOrNull(comparator)^n}^n@Deprecated("Use maxWithOrNull instead.",
ReplaceWith("this.maxWithOrNull(comparator)")^n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")^n@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
UByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {^n return
maxWithOrNull(comparator)^n}^n@Deprecated("Use maxWithOrNull instead.",
ReplaceWith("this.maxWithOrNull(comparator)")^n@DeprecatedSinceKotlin(warningSince
= "1.4", errorSince = "1.5", hiddenSince =
"1.6")^n@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UShortArray.maxWith(comparator:
Comparator<in UShort>): UShort? {^n return maxWithOrNull(comparator)^n}^n/^n/**^n * Returns the first element
having the largest value according to the provided [comparator] or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun UIntArray.maxWithOrNull(comparator:
Comparator<in UInt>): UInt? {^n if (isEmpty()) return null^n var max = this[0]^n for (i in 1..lastIndex) {^n
val e = this[i]^n if (comparator.compare(max, e) < 0) max = e^n }^n return max^n}^n/^n/**^n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.^n
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^public fun ULongArray.maxWithOrNull(comparator:
Comparator<in

```

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    ULong>): ULong? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first
element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWithOrNull(comparator:
Comparator<in UByte>): UByte? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n
        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWithOrNull(comparator:
Comparator<in UShort>): UShort? {\n    if (isEmpty()) return null\n    var max
= this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n
return max\n}\n\n@Deprecated("Use minOrNull instead.")
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt?
{\n    return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.")
ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min():
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minOrNull instead.", ReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.min(): UShort? {\n    return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.")
ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n    return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.")
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<R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n    return
minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R): UInt? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)

```



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{\n      minElem = e\n      minValue = v\n  }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOf(selector: (UInt) -> Double): Double {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
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ULongArray.minOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
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selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
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UShortArray.minOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

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inline fun <R : Comparable<R>> ULongArray.minOf(selector: (ULong) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function
* applied to each element in the array.
* @throws NoSuchElementException if the array is empty.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> UByteArray.minOf(selector: (UByte) -> R): R {
    if (isEmpty()) throw
NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
Returns the smallest value among all
values produced by [selector] function
* applied to each element in the array.
* @throws
NoSuchElementException if the array is empty.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <R :
Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {
    if (isEmpty()) throw
NoSuchElementException()
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
selector(this[i])
        if (minValue > v) {
            minValue = v
        }
    }
    return minValue
}
Returns the smallest value among all values produced
by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {
    if (isEmpty()) return null
    var minValue =
selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced by [selector] function
*
applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun ULongArray.minOfOrNull(selector: (ULong) -> Double): Double? {
    if (isEmpty()) return null
    var
minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue =
minOf(minValue, v)
    }
    return minValue
}
Returns the smallest value among all values produced
by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.minOfOrNull(selector: (UByte) -> Double): Double? {
    if (isEmpty()) return null
    var minValue
= selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
minValue
}
Returns the smallest value among all values produced by [selector] function
* applied to
each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.

*\/n@SinceKotlin("1.4")n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)n@OverloadResolution
ByLambdaReturnTypen@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {
    if (isEmpty()) return null
    var minValue
= selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        minValue = minOf(minValue, v)
    }
    return
minValue
}
Returns the smallest value among all values produced by [selector] function

```

\* applied to each element in

the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.minOfOrNull(selector: (UInt) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun\nULongArray.minOfOrNull(selector: (ULong) -> Float): Float? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue =\n        minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.minOfOrNull(selector: (UByte) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all\n * values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.minOfOrNull(selector: (UShort) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun <R : Comparable<R>> UIntArray.minOfOrNull(selector: (UInt) -> R): R? {\n    if (isEmpty()) return\n    null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n        (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value\n * among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no\n * elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> ULongArray.minOfOrNull(selector: (ULong) -> R): R? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> UByteArray.minOfOrNull(selector: (UByte) -> R): R? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
```

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    minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> :
Comparable<R>> UShortArray.minOrNull(selector: (UShort) -> R): R? {\n    if (isEmpty()) return null\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n
*\n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.minOfWith(comparator: Comparator<in
R>, selector: (UInt) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue,
v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue,
v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced
by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array
is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n    if
(isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n if (isEmpty())
return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according
to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the
array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull():
ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull():
UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull():
UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex)
{\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull
instead.", ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

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UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n  return
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the
provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator]
or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.minWithOrNull(comparator: Comparator<in UShort>): UShort? {\n  if (isEmpty()) return null\n
var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min =
e\n  }\n  return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
*\n
@sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
false\n  return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
false\n  return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
false\n  return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n  for (element

```

in this) if (predicate(element)) return false\n return true\n}\n\n/\*\*\n \* Performs the given [action] on each element and returns the array itself afterwards.\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.onEach(action: (UInt) -> Unit): UIntArray {\n return apply { for (element in this) action(element)\n }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n return apply { for (element in this)\n action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.onEach(action: (UByte) -> Unit): UByteArray {\n return apply { for (element in\n this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n return apply { for (element in this)\n action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the\n element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element\n and the element itself\n * and performs the action on the element.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n return apply {\n forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index\n with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on\n the element.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {\n return apply {\n forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index\n with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an\n element and the element itself\n * and performs the action on the element.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {\n return apply {\n forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index\n with the element,\n * and returns the array itself afterwards.\n
```

```
* @param [action] function that takes the index of an element and the element itself\n * and performs the action on\n the element.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit): UShortArray {\n return apply {\n forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is\n empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its\n receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun\nUIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n if (isEmpty())\n throw\n UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in\n 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current\n accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty\n in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```



UByteArray.reduce(operation:

(acc: ULong, ULong) -> ULong): ULong {  
 if (isEmpty())  
 throw

UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")  
@ExperimentalUnsignedTypes  
@kotlin.internal.InlineOnly  
public inline fun

UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {  
 if (isEmpty())  
 throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator =

operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")  
@ExperimentalUnsignedTypes  
@kotlin.internal.InlineOnly  
public inline fun

UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort):

UShort {  
 if (isEmpty())  
 throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(accumulator, this[index])  
 }  
 return accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")  
@ExperimentalUnsignedTypes  
@kotlin.internal.InlineOnly  
public inline fun

UIntArray.reduceIndexed(operation:

(index: Int, acc: UInt, UInt) -> UInt): UInt {  
 if (isEmpty())  
 throw

UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(index, accumulator, this[index])  
 }  
 return

accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
@sample samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")  
@ExperimentalUnsignedTypes  
@kotlin.internal.InlineOnly  
public

inline fun ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {  
 if (isEmpty())  
 throw UnsupportedOperationException("Empty array can't be reduced.")  
 var accumulator = this[0]  
 for (index in 1..lastIndex) {  
 accumulator = operation(index, accumulator, this[index])  
 }  
 return

accumulator  
}

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.  
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function

that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n  if (isEmpty())\n  throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n
* and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n  if (isEmpty())\n
throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {\n  if (isEmpty())\n
return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(index,
accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun
ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {\n  if
(isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(index, accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceIndexedOrNull(operation: (index: Int, acc:
UByte, UByte) -> UByte): UByte? {\n  if (isEmpty())\n    return null\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {\n  if

```

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(isEmpty())\n    return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt?\n{\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting\n * with the first element and applying [operation] from left to right\n * to current accumulator value and each\n * element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current\n * accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) ->\n    ULong): ULong? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex)\n    {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates\n * value starting with the first element and applying [operation] from left to right\n * to current accumulator value and\n * each element.\n * \n * Returns `null` if the array\n * is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and\n * calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) ->\n    UByte): UByte? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex)\n    {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates\n * value starting with the first element and applying [operation] from left to right\n * to current accumulator value and\n * each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current\n * accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) ->\n    UShort): UShort? {\n    if (isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex)\n    {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates\n * value starting with the last element and applying [operation] from right to left\n * to each element and current\n * accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected\n * way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param\n * [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator\n * value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n    var index = lastIndex\n    if (index < 0)\n        throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return\n    accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to\n * left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the\n * array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its\n * receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *

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and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n  var index = lastIndex\n  if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n  var index = lastIndex\n  if (index
< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = get(index--)\n
while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n  var index = lastIndex\n  if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n  var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n
}\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver
is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var
accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),

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accumulator)\n    --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when
its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n    var index =
lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If
the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null`
when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element
itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n    var index =
lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element
with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? {\n    var index =
lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the
element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {\n    var
index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original
array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {\n    var

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index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array
is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort? {\n  var
index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt):
UInt? {\n  var index = lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index
>= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) -> ULong): ULong? {\n  var index =
lastIndex\n  if (index < 0) return null\n  var accumulator = get(index--)\n  while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightOrNull(operation:
(UByte, acc: UByte) -> UByte): UByte? {\n  var index = lastIndex\n  if (index < 0) return null\n  var
accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n
  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*/\n\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->
UShort): UShort? {\n  var index = lastIndex\n  if (index < 0) return
null\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--),
accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element and current accumulator value that starts
with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *

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otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample

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samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply
  { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n    accumulator = operation(accumulator,
element)\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and an element, and calculates the\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result
= ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (element in this) {\n
accumulator = operation(accumulator, element)\n  result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.runningFold(initial: R, operation: (acc: R, UShort) ->
R): List<R> {\n  if (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n
var accumulator = initial\n  for (element in this) {\n    accumulator = operation(accumulator, element)\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n
if (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator
= initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation

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values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \*

@sample samples.collections.Collections.Aggregates.runningFold\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n    if\n(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =\ninitial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    result.add(accumulator)\n}\nreturn result\n}\n\n/**\n * Returns a list containing successive accumulation\n * values generated by applying [operation] from left to right\n * to each element, its index in the original array and\n * current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function\n * should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes
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the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator\n \* value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n    if\n(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =\ninitial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    result.add(accumulator)\n}\nreturn result\n}\n\n/**\n * Returns a list containing successive accumulation\n * values generated by applying [operation] from left to right\n * to each element, its index in the original array and\n * current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function\n * should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param\n * [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and\n * calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
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```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n    if\n(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =\ninitial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n    }\n    result.add(accumulator)\n}\nreturn result\n}\n\n/**\n * Returns a list containing successive accumulation\n * values generated by applying [operation] from left to right\n * to each element and current accumulator\n * value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function\n * should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n *
```

@sample samples.collections.Collections.Aggregates.runningReduce\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n    if (isEmpty()) return\nemptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UInt>(size).apply { add(accumulator) }\n    for\n(index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying\n * [operation] from left
```

to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the\n \* previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an\n \* element, and calculates the next accumulator value.\n \* \n \* @sample\n \* samples.collections.Collections.Aggregates.runningReduce\n



```

*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {n if (isEmpty()) return
emptyList()n var accumulator = this[0]n val result = ArrayList<ULong>(size).apply { add(accumulator) }n
for (index in 1 until size) {n accumulator = operation(accumulator, this[index])n result.add(accumulator)n
}n return resultn}n/n/**n * Returns a list containing successive
accumulation values generated by applying [operation] from left to rightn * to each element and current
accumulator value that starts with the first element of this array.n * n * Note that `acc` value passed to [operation]
function should not be mutated;n * otherwise it would affect the previous value in resulting list.n * n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.n * n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {n if (isEmpty()) return
emptyList()n var accumulator = this[0]n val result = ArrayList<UByte>(size).apply { add(accumulator) }n
for (index in 1 until size) {n accumulator = operation(accumulator, this[index])n result.add(accumulator)n
}n return
resultn}n/n/**n * Returns a list containing successive accumulation values generated by applying [operation]
from left to rightn * to each element and current accumulator value that starts with the first element of this array.n
* n * Note that `acc` value passed to [operation] function should not be mutated;n * otherwise it would affect the
previous value in resulting list.n * n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {n if (isEmpty()) return
emptyList()n var accumulator = this[0]n val result = ArrayList<UShort>(size).apply { add(accumulator) }n
for (index in 1 until size) {n accumulator = operation(accumulator,
this[index])n result.add(accumulator)n }n return resultn}n/n/**n * Returns a list containing successive
accumulation values generated by applying [operation] from left to rightn * to each element, its index in the original
array and current accumulator value that starts with the first element of this array.n * n * Note that `acc` value
passed to [operation] function should not be mutated;n * otherwise it would affect the previous value in resulting
list.n * n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {n if (isEmpty())
return emptyList()n var accumulator = this[0]n
val result = ArrayList<UInt>(size).apply { add(accumulator) }n for (index in 1 until size) {n accumulator
= operation(index, accumulator, this[index])n result.add(accumulator)n }n return resultn}n/n/**n *
Returns a list containing successive accumulation values generated by applying [operation] from left to rightn * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.n * n * Note that `acc` value passed to [operation] function should not be mutated;n * otherwise it would
affect the previous value in resulting list.n * n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\/n@SinceKotlin("1.4")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
ULongArray.runningReduceIndexed(operation:
(index: Int, acc: ULong, ULong) -> ULong): List<ULong> {n if (isEmpty()) return emptyList()n var
accumulator = this[0]n val result = ArrayList<ULong>(size).apply { add(accumulator) }n for (index in 1 until
size) {n accumulator = operation(index, accumulator, this[index])n result.add(accumulator)n }n

```

return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \*\n \* @SinceKotlin("1.4")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public inline fun UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UByte>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n \*\n \* @SinceKotlin("1.4")\n \* @ExperimentalUnsignedTypes\n \* @kotlin.internal.InlineOnly\n \* public inline fun UShortArray.runningReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): List<UShort> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UShort>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n \*\n \* @SinceKotlin("1.4")\n \* @ExperimentalUnsignedTypes\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* @kotlin.internal.InlineOnly\n \* public inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n \*\n \* @SinceKotlin("1.4")\n \* @ExperimentalUnsignedTypes\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* @kotlin.internal.InlineOnly\n \* public inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n \*\n \* @SinceKotlin("1.4")\n \* @ExperimentalUnsignedTypes\n \* @WasExperimental(ExperimentalStdlibApi::class)\n \* @kotlin.internal.InlineOnly\n \* public inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by

applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
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```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
```

```

inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {
    var sum: UInt = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
// Returns the sum of all values produced by [selector]
// function applied to each element in the array.
// @Deprecated("Use sumOf instead.",
// ReplaceWith("this.sumOf(selector)"))
// @DeprecatedSinceKotlin(warningSince =
// "1.5")
// @SinceKotlin("1.3")
// @ExperimentalUnsignedTypes
// @kotlin.internal.InlineOnly
// public inline fun
// ULongArray.sumBy(selector: (ULong) -> UInt): UInt {
//     var sum: UInt = 0
//     for (element in this) {
//         sum += selector(element)
//     }
//     return sum
// }
// Returns the sum of all values produced by [selector]
// function applied to each element in the array.
// @Deprecated("Use sumOf instead.",
// ReplaceWith("this.sumOf(selector)"))
// @DeprecatedSinceKotlin(warningSince =
// "1.5")
// @SinceKotlin("1.3")
// @ExperimentalUnsignedTypes
// @kotlin.internal.InlineOnly
// public
// inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {
//     var sum: UInt = 0
//     for (element in this) {
//         sum += selector(element)
//     }
//     return sum
// }
// Returns the sum of all values produced by
// [selector] function applied to each element in the array.
// @Deprecated("Use sumOf instead.",
// ReplaceWith("this.sumOf(selector)"))
// @DeprecatedSinceKotlin(warningSince =
// "1.5")
// @SinceKotlin("1.3")
// @ExperimentalUnsignedTypes
// @kotlin.internal.InlineOnly
// public inline fun
// UShortArray.sumBy(selector: (UShort) -> UInt): UInt {
//     var sum: UInt = 0
//     for (element in this) {
//         sum += selector(element)
//     }
//     return sum
// }
// Returns the sum of all values produced by [selector]
// function applied to each element in the array.
// @Deprecated("Use sumOf instead.",
// ReplaceWith("this.sumOf(selector)"))
// @DeprecatedSinceKotlin(warningSince =
// "1.5")
// @SinceKotlin("1.3")
// @ExperimentalUnsignedTypes
// @kotlin.internal.InlineOnly
// public
// inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {
//     var sum: Double = 0.0
//     for (element in this) {
//         sum += selector(element)
//     }
//     return sum
// }
// Returns the sum of all values
// produced by [selector] function applied to each element in the array.
// @Deprecated("Use sumOf instead.",
// ReplaceWith("this.sumOf(selector)"))
// @DeprecatedSinceKotlin(warningSince =
// "1.5")
// @SinceKotlin("1.3")
// @ExperimentalUnsignedTypes
// @kotlin.internal.InlineOnly
// public inline fun
// ULongArray.sumByDouble(selector: (ULong) -> Double): Double {
//     var sum: Double = 0.0
//     for (element in
// this) {
//         sum += selector(element)
//     }
//     return sum
// }
// Returns the sum of all values produced by
// [selector] function applied to each element in the array.
// @Deprecated("Use sumOf instead.",
// ReplaceWith("this.sumOf(selector)"))
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// = "1.5")
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// UIntArray.sumByDouble(selector: (UInt) -> Double): Double {
//     var sum: Double = 0.0
//     for (element in
// this) {
//         sum += selector(element)
//     }
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// @ExperimentalUnsignedTypes
// @kotlin.internal.InlineOnly
// public inline fun
// UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
//     var sum: Double = 0.0
//     for (element in
// this) {
//         sum += selector(element)
//     }
//     return sum
// }
// Returns the sum of all values produced by
// [selector] function applied to each element in the array.
// @SinceKotlin("1.4")
// @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// @OverloadResolution
// ByLambdaReturnType
// @Suppress("INAPPLICABLE_JVM_NAME")
// @kotlin.jvm.JvmName("sumOfDouble")
// @ExperimentalUnsignedTypes
// @kotlin.internal.InlineOnly
// public
// inline fun UIntArray.sumOf(selector: (UInt) -> Double): Double {
//     var sum: Double = 0.toDouble()
//     for (element in this) {
//         sum += selector(element)
//     }
//     return sum
// }
// Returns the sum of all values
// produced by [selector] function applied to each element in the array.
// @SinceKotlin("1.4")
// @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// @OverloadResolution
// ByLambdaReturnType
// @Suppress("INAPPLICABLE_JVM_NAME")
// @kotlin.jvm.JvmName("sumOfDouble")
// @ExperimentalUnsignedTypes
// @kotlin.internal.InlineOnly
// public inline fun ULongArray.sumOf(selector:
// (ULong) -> Double): Double {
//     var sum: Double = 0.toDouble()
//     for (element in this) {
//         sum +=

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selector(element)\n } return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this) {\n sum +=
selector(element)\n } return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfDouble")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> Double): Double {\n var sum: Double
= 0.toDouble()\n for (element in this) {\n sum += selector(element)\n } return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -
> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n } return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this)
{\n sum += selector(element)\n } return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
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ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n
@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this)
{\n sum += selector(element)\n } return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt)
-> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element
in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=

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selector(element)\n } return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the array.\n
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ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:
(UShort) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum +=
selector(element)\n    } return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic
inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    } return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n        sum += selector(element)\n    } return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic
inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in
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[selector] function applied to each element in the array.\n
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\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n        sum += selector(element)\n    } return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {\n    var sum: ULong =
0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    } return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n

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*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic
inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n    var sum: ULong =
0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each
element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong\
")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {\n    var sum: ULong =
0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns a
list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out
R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Array<out R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using
the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val size = minOf(size,

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other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>\n UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val size = minOf(size,\n other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>\n UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val size = minOf(size,\n other.size)\n    val list\n = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return\n list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same\n index.\n * The returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:\n Iterable<R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs\n built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of\n the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:\n Iterable<R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The\n returned list has length of the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other:\n Iterable<R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs\n built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of\n the shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterable\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:\n Iterable<R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of\n values built from the elements of `this` array and the [other] collection with the same index\n * \n * \n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the\n shortest collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>\n UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =\n ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a\n list of values built from the elements of `this` array and the [other] collection with the same index\n * using the\n provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest\n collection.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>\n ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val arraySize = size\n    val\n list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other)\n {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n *

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Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V>
{\n    val arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var
i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val arraySize = size\n    val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other)
{\n        if (i >= arraySize) break\n
        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):
List<Pair<UInt, UInt>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):
List<Pair<ULong, ULong>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of
`this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray):
List<Pair<UByte, UByte>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray):
List<Pair<UShort, UShort>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built
from the elements of `this` array and the [other] array with the same index\n * using the provided [transform]
function applied to each pair of elements.\n
* The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.zip(other: ULongArray, transform:
(a: ULong, b: ULong) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n
for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of

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values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array
and the [other] array with the same index\n * using the provided [transform] function applied to each pair of
elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Array<out UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in
the array.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this)
{\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.sum(): UInt {\n    return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements
in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.sum(): ULong {\n    return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all
elements in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sum(): UInt {\n    return sumOf { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sum(): UInt {\n    return sumOf { it.toUInt() }\n}\n\n", "*/\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in
the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UCollectionsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the
elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UByte>.toUByteArray(): UByteArray {\n    val result = UByteArray(size)\n    var index = 0\n    for
(element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of UInt containing
all of the elements of this collection.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UInt>.toUIntArray(): UIntArray {\n    val result = UIntArray(size)\n    var index = 0\n    for (element

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in this)\n    result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of ULong containing all of
the elements of this collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<ULong>.toULongArray(): ULongArray {\n    val result = ULongArray(size)\n    var index = 0\n    for
(element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of UShort
containing all of the elements of this collection.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray():
UShortArray {\n    val result = UShortArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =
element\n    return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Iterable<UInt>.sum(): UInt {\n    var sum: UInt = 0\n
for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in
the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<ULong>.sum(): ULong {\n    var sum: ULong = 0UL\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<UByte>.sum(): UInt {\n    var sum: UInt = 0\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<UShort>.sum(): UInt {\n    var sum: UInt = 0\n    for (element in this)
{\n        sum += element\n    }\n    return sum\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UComparisonsKt")\n\npackage
kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
greater of two values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UInt, b:
UInt): UInt {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: ULong,
b: ULong): ULong {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the
greater of two values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UByte,
b: UByte): UByte {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UShort,
b: UShort): UShort {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns
the greater of three values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n *
Returns the greater of three values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public
inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns
the greater of three values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n    return maxOf(a, maxOf(b, c))\n}\n\n"/**\n

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* Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: UInt, vararg other: UInt): UInt {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return
max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, vararg other: ULong):
ULong {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater
of the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic
fun maxOf(a: UByte, vararg other: UByte): UByte {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n
return max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, vararg other: UShort):
UShort {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the smaller
of two values.\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
minOf(a: UInt, b: UInt): UInt {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: ULong,
b: ULong): ULong {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UByte,
b: UByte): UByte {\n    return
if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UShort,
b: UShort): UShort {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns
the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n    return minOf(a, minOf(b,
c))\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n
* Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: UInt, vararg other: UInt): UInt {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return
min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, vararg other: ULong):
ULong {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller
of the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte,
vararg other: UByte): UByte {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n
* Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: UShort, vararg other: UShort): UShort {\n    var min = a\n    for (e in other) min = minOf(min, e)\n
return min\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("URangesKt")\n\npackage
kotlin.ranges\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\n\n/**\n * Returns a
random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun UIntRange.random():

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    UInt { \n    return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws
IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun ULongRange.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random
element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if
this range is empty.\n * \n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UIntRange.random(random: Random): UInt {\n    try {\n        return random.nextUInt(this)\n    } catch(e:
IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a
random element from this range using the specified source of randomness.\n * \n * @throws
IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun ULongRange.random(random: Random): ULong {\n    try {\n        return random.nextULong(this)\n    }
catch(e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n *
Returns a random element from this range, or `null` if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.randomOrNull():
UInt? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this
range is empty.\n * \n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.randomOrNull():
ULong? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness, or `null` if this range
is empty.\n * \n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\npublic fun UIntRange.randomOrNull(random: Random): UInt? {\n    if
(isEmpty())\n        return null\n    return random.nextUInt(this)\n}\n\n/**\n * Returns a random element from this
range using the specified source of randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\npublic fun ULongRange.randomOrNull(random: Random): ULong? {\n    if
(isEmpty())\n        return null\n    return random.nextULong(this)\n}\n\n/**\n * Returns `true` if this range contains
the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline operator fun UIntRange.contains(element: UInt?): Boolean {\n    return element != null &&
contains(element)\n}\n\n/**\n
* Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is
`null`.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline operator fun ULongRange.contains(element: ULong?): Boolean {\n    return element != null &&
contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
UIntRange.contains(value: UByte): Boolean {\n    return contains(value.toUInt())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
ULongRange.contains(value: UByte): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
operator fun ULongRange.contains(value: UInt): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
UIntRange.contains(value: ULong): Boolean {\n    return (value shr UInt.SIZE_BITS) == 0uL &&

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contains(value.toUInt())\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
UIntRange.contains(value: UInt): Boolean {\n    return contains(value.toUInt())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun
ULongRange.contains(value: UInt): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n * Returns a
progression from this value down to the specified
[to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is
greater than `this` value the returned progression is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UByte.downTo(to: UByte): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -
1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value
the returned progression is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UInt.downTo(to: UInt): UIntProgression {\n    return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n *
Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should
be less
than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULong.downTo(to: ULong): ULongProgression {\n    return ULongProgression.fromClosedRange(this, to, -
1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n *
The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UShort.downTo(to: UShort): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the
same step.\n * \n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UIntProgression.reversed(): UIntProgression {\n    return UIntProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same
step.\n * \n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULongProgression.reversed(): ULongProgression {\n    return ULongProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UIntProgression.step(step: Int): UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return
UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression
that goes over the same range with the given step.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULongProgression.step(step:
Long): ULongProgression {\n    checkStepIsPositive(step > 0, step)\n    return
ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UByte.until(to: UByte): UIntRange {\n    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UInt.until(to:

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UInt): UIntRange {\n  if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n  return this ..
(to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n *
If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULong.until(to: ULong): ULongRange {\n  if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n
return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UShort.until(to: UShort): UIntRange {\n  if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n  return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified
[minimumValue].\n * \n * @return this value if it's greater
than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceAtLeast(minimumValue: UInt): UInt {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtLeast(minimumValue: ULong): ULong {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue]
otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtLeast(minimumValue: UByte): UByte {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtLeast(minimumValue: UShort): UShort {\n  return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceAtMost(maximumValue: UInt): UInt {\n  return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtMost(maximumValue: ULong): ULong {\n  return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n  return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return
this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n

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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtMost(maximumValue: UShort): UShort {\n    return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n
* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n    if (minimumValue > maximumValue)
throw IllegalArgumentException("\n    Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n    if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot
coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\n")\n    if (this
< minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return
this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n
* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n    if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.\n")\n    if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n    return
this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n
* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n    if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.\n")\n    if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n    if (range is ClosedFloatingPointRange) {\n        return
this.coerceIn<UInt>(range)\n    }\n    if (range.isEmpty()) throw IllegalArgumentException("\n    Cannot coerce value to
an empty range: $range.\n")\n    return when {\n        this < range.start -> range.start\n        this > range.endInclusive -
> range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n
* @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or
`range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample

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samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {\n    if (range is ClosedFloatingPointRange) {\n
return this.coerceIn<ULong>(range)\n    }\n    if (range.isEmpty()) throw IllegalArgumentException("Cannot
coerce value to an empty range: $range.")\n    return when {\n        this < range.start -> range.start\n        this >
range.endInclusive -> range.endInclusive\n        else -> this\n    }\n}\n\n", /*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage
kotlin.sequences\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n * Returns the
sum of all elements in the sequence.\n
*\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Sequence<UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= element\n    }\n    return sum\n}\n\n * Returns the sum of all elements in the sequence.\n * The
operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<ULong>.sum(): ULong {\n    var sum: ULong = 0uL\n    for (element in this)
{\n        sum += element\n    }\n    return sum\n}\n\n * Returns the sum of all elements in the sequence.\n * The
operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n * Returns the sum of all elements in the sequence.\n * The operation is
_terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Sequence<UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
sum += element\n    }\n    return sum\n}\n\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n\npackage kotlin\n\npublic expect open class Error : Throwable {\n
constructor()\n    constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n
constructor(cause: Throwable?)\n}\n\npublic expect open class Exception : Throwable {\n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\npublic expect open class RuntimeException : Exception {\n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\npublic expect open class IllegalArgumentException : RuntimeException {\n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\npublic expect open class IllegalStateException : RuntimeException {\n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\npublic expect open class IndexOutOfBoundsException : RuntimeException {\n    constructor()\n
constructor(message: String?)\n}\n\npublic expect open class ConcurrentModificationException :
RuntimeException {\n    constructor()\n    constructor(message: String?)\n    @Deprecated("The constructor is not
supported on all platforms and\n    will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\n
constructor(message: String?, cause: Throwable?)\n    @Deprecated("The constructor is not supported on all platforms and will be
removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\n    constructor(cause: Throwable?)\n}\n\npublic expect open class UnsupportedOperationException : RuntimeException {\n

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constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n
constructor(cause: Throwable?)\n}\n\npublic expect open class NumberFormatException :
IllegalArgumentException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect open class
NullPointerException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect
open class ClassCastException : RuntimeException {\n constructor()\n constructor(message:
String?)\n}\n\npublic expect open class AssertionError : Error {\n
constructor()\n constructor(message: Any?)\n}\n\npublic expect open class NoSuchElementException :
RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n@SinceKotlin("1.3")\npublic
expect open class ArithmeticException : RuntimeException {\n constructor()\n constructor(message:
String?)\n}\n\n@Deprecated("This exception type is not supposed to be thrown or caught in common code and will
be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\npublic expect open class
NoWhenBranchMatchedException : RuntimeException {\n constructor()\n constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n@Deprecated("This
exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-
common soon.", level = DeprecationLevel.ERROR)\npublic expect class UninitializedPropertyAccessException :
RuntimeException {\n constructor()\n
constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause:
Throwable?)\n}\n\n/**\n * Thrown after invocation of a function or property that was expected to return `Nothing`,
but returned something instead.\n * \n *\n * @SinceKotlin("1.4")\n * @PublishedApi\n * internal class
KotlinNothingValueException : RuntimeException {\n constructor(): super()\n constructor(message: String?) :
super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n
constructor(cause: Throwable?) : super(cause)\n}\n\n\n/**\n * Returns the detailed description of this throwable
with its stack trace.\n * \n *\n * The detailed description includes:\n * - the short description (see [Throwable.toString])
of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were
[suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of each
throwable
in the [Throwable.cause] chain.\n * \n *\n * @SinceKotlin("1.4")\n * public expect fun Throwable.stackTraceToString():
String\n\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to the standard
output or standard error output.\n
*\n *\n * @SinceKotlin("1.4")\n * @Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n * public expect fun
Throwable.printStackTrace(): Unit\n\n\n/**\n * When supported by the platform, adds the specified exception to the
list of exceptions that were\n * suppressed in order to deliver this exception.\n
*\n *\n * @SinceKotlin("1.4")\n * @Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n * public expect fun
Throwable.addSuppressed(exception: Throwable)\n\n\n/**\n * Returns a list of all exceptions that were suppressed in
order to deliver this exception.\n * \n *\n * The list can be empty:\n * - if no exceptions were suppressed;\n * - if the
platform doesn't support suppressed exceptions;\n * - if this [Throwable] instance has disabled the suppression.\n
*\n *\n * @SinceKotlin("1.4")\n * public
expect val Throwable.suppressedExceptions: List<Throwable>\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n * \n *\n * \n *\n * @package kotlin.js\n * \n *\n * \n *\n *
kotlin.annotation.AnnotationTarget.\n * \n *\n * \n *\n * Gives a declaration (a function, a property or a class) specific name
in JavaScript.\n * \n *\n * @Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER,
PROPERTY_SETTER)\n * \n *\n * @OptionalExpectation\n * \n *\n * public expect annotation class JsName(val name: String)\n\n\n/**\n
* Marks experimental JS export annotations.\n * \n *\n * Note that behavior of these annotations will likely be changed
in the future.\n * \n *\n * Usages of such annotations will be reported as warnings unless an explicit opt-in with\n * the
[OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`,\n * or with the `Xopt-
in=kotlin.js.ExperimentalJsExport` compiler option

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is given.\n *\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.WARNING)\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Since
Kotlin("1.4")\n\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS
platform.\n *\n * Compiled module exposes declarations that are marked with this annotation without name
mangling.\n *\n * This annotation can be applied to either files or top-level declarations.\n *\n * It is currently
prohibited to export the following kinds of declarations:\n *\n * * `expect` declarations\n * * inline functions with
reified type parameters\n * * suspend functions\n * * secondary constructors without `@JsName`\n * *
extension properties\n * * enum classes\n * * annotation classes\n *\n * Signatures of exported declarations must
only contain `exportable` types:\n *\n * * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`,
`Float`, `Double`\n * * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n *
* `Array<exportable-type>`\n * * Function types with exportable parameters and return types\n * * `external` or
`@JsExport` classes and interfaces\n * * Nullable counterparts of types above\n * * Unit return type. Must not be
nullable\n *\n * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n
*\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY,
FUNCTION, FILE)\n@SinceKotlin("1.4")\n@OptionalExpectation\n\npublic expect annotation class
JsExport(),"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@npackage kotlin.io\n\n/** Prints the line separator to the standard output stream. *\n\npublic expect fun
println()\n\n/**
Prints the given [message] and the line separator to the standard output stream. *\n\npublic expect fun
println(message: Any?)\n\n/** Prints the given [message] to the standard output stream. *\n\npublic expect fun
print(message: Any?)\n\n/**\n * Reads a line of input from the standard input stream and returns it,\n * or throws a
[RuntimeException] if EOF has already been reached when [readln] is called.\n *\n * LF or CRLF is treated as the
line terminator. Line terminator is not included in the returned string.\n *\n * Currently this function is not supported
in Kotlin/JS and throws [UnsupportedOperationException].\n *\n@SinceKotlin("1.6")\n\npublic expect fun
readln(): String\n\n/**\n * Reads a line of input from the standard input stream and returns it,\n * or return `null` if
EOF has already been reached when [readlnOrNull] is called.\n *\n * LF or CRLF is treated as the line terminator.
Line terminator is not included in the returned string.\n *\n * Currently this function is
not supported in Kotlin/JS and throws [UnsupportedOperationException].\n *\n@SinceKotlin("1.6")\n\npublic
expect fun readlnOrNull(): String?\n\ninternal class ReadAfterEOFException(message: String?) :
RuntimeException(message)\n\ninternal expect interface Serializable\n","/**\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\n@npackage kotlin.collections\n\nimport
kotlin.internal.PlatformDependent\n\n/**\n * Classes that inherit from this interface can be represented as a
sequence of elements that can\n * be iterated over.\n * @param T the type of element being iterated over. The
iterator is covariant in its element type.\n *\n@npublic interface Iterable<out T> {\n // **\n * Returns an iterator
over the elements of this object.\n *\n *\n public operator fun iterator(): Iterator<T>\n }\n\n/**\n * Classes that
inherit from
this interface can be represented as a sequence of elements that can\n * be iterated over and that supports removing
elements during iteration.\n * @param T the type of element being iterated over. The mutable iterator is invariant in
its element type.\n *\n@npublic interface MutableIterable<out T> : Iterable<T> {\n // **\n * Returns an iterator
over the elements of this sequence that supports removing elements during iteration.\n *\n@n override fun
iterator(): MutableIterator<T>\n }\n\n/**\n * A generic collection of elements. Methods in this interface support only
read-only access to the collection;\n * read/write access is supported through the [MutableCollection] interface.\n *
@param E the type of elements contained in the collection. The collection is covariant in its element type.\n
*\n@npublic interface Collection<out E> : Iterable<E> {\n // Query Operations\n // **\n * Returns the size of the
collection.\n *\n *\n public val size: Int\n\n // **\n * Returns

```

```

`true` if the collection is empty (contains no elements), `false` otherwise.\n
 */\n
 public fun isEmpty():
 Boolean\n\n
 /**\n
  * Checks if the specified element is contained in this collection.\n
  */\n
 public operator
 fun contains(element: @UnsafeVariance E): Boolean\n\n
 override fun iterator(): Iterator<E>\n\n
 // Bulk
 Operations\n
 /**\n
  * Checks if all elements in the specified collection are contained in this collection.\n
  */\n
 public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n
} \n\n
/**\n
 * A generic collection of
 elements that supports adding and removing elements.\n
 */\n
 * @param E the type of elements contained in the
 collection. The mutable collection is invariant in its element type.\n
 */\n
public interface MutableCollection<E> :
 Collection<E>, MutableIterable<E> {\n
 // Query Operations\n
 override fun iterator(): MutableIterator<E>\n\n
 // Modification Operations\n
 /**\n
  * Adds the specified element
 to the collection.\n
 */\n
 * @return `true` if the element has been added, `false` if the collection does not support
 duplicates\n
 * and the element is already contained in the collection.\n
 */\n
 public fun add(element: E):
 Boolean\n\n
 /**\n
  * Removes a single instance of the specified element from this\n
  * collection, if it is
 present.\n
 */\n
 * @return `true` if the element has been successfully removed; `false` if it was not present in the
 collection.\n
 */\n
 public fun remove(element: E): Boolean\n\n
 // Bulk Modification Operations\n
 /**\n
  *
 Adds all of the elements of the specified collection to this collection.\n
 */\n
 * @return `true` if any of the
 specified elements was added to the collection, `false` if the collection was not modified.\n
 */\n
 public fun
 addAll(elements: Collection<E>): Boolean\n\n
 /**\n
  * Removes all of this collection's elements that are also
 contained in the specified collection.\n
 */\n
 *
 @return `true` if any of the specified elements was removed from the collection, `false` if the collection was
 not modified.\n
 */\n
 public fun removeAll(elements: Collection<E>): Boolean\n\n
 /**\n
  * Retains only the
 elements in this collection that are contained in the specified collection.\n
 */\n
 * @return `true` if any element
 was removed from the collection, `false` if the collection was not modified.\n
 */\n
 public fun
 retainAll(elements: Collection<E>): Boolean\n\n
 /**\n
  * Removes all elements from this collection.\n
 */\n
 */\n
 public fun clear(): Unit\n\n
} \n\n
/**\n
 * A generic ordered collection of elements. Methods in this interface support
 only read-only access to the list;\n
 * read/write access is supported through the [MutableList] interface.\n
 */\n
 * @param
 E the type of elements contained in the list. The list is covariant in its element type.\n
 */\n
public interface List<out
 E> : Collection<E> {\n
 // Query Operations\n\n
 override val
 size: Int\n\n
 override fun isEmpty(): Boolean\n\n
 override fun contains(element: @UnsafeVariance E): Boolean\n\n
 override fun iterator(): Iterator<E>\n\n
 // Bulk Operations\n\n
 override fun containsAll(elements:
 Collection<@UnsafeVariance E>): Boolean\n\n
 // Positional Access Operations\n
 /**\n
  * Returns the element
 at the specified index in the list.\n
 */\n
 */\n
 public operator fun get(index: Int): E\n\n
 // Search Operations\n
 /**\n
  *
 Returns the index of the first occurrence of the specified element in the list, or -1 if the specified\n
 * element
 is not contained in the list.\n
 */\n
 */\n
 public fun indexOf(element: @UnsafeVariance E): Int\n\n
 /**\n
  * Returns
 the index of the last occurrence of the specified element in the list, or -1 if the specified\n
 * element is not
 contained in the list.\n
 */\n
 */\n
 public fun lastIndexOf(element: @UnsafeVariance E): Int\n\n
 // List Iterators\n
 /**\n
  * Returns a list iterator over the elements
 in this list (in proper sequence).\n
 */\n
 */\n
 public fun listIterator(): ListIterator<E>\n\n
 /**\n
  * Returns a list
 iterator over the elements in this list (in proper sequence), starting at the specified [index].\n
 */\n
 */\n
 public fun listIterator(index: Int): ListIterator<E>\n\n
 // View\n
 /**\n
  * Returns a view of the portion of this list between
 the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n
 * The returned list is backed by this list, so non-
 structural changes in the returned list are reflected in this list, and vice-versa.\n
 */\n
 * Structural changes in the
 base list make the behavior of the view undefined.\n
 */\n
 */\n
 public fun subList(fromIndex: Int, toIndex: Int):
 List<E>\n\n
} \n\n
/**\n
 * A generic ordered collection of elements that supports adding and removing elements.\n
 */\n
 * @param E the type of elements contained in the list. The mutable list is invariant in its element type.\n
 */\n
public interface MutableList<E> : List<E>,
 MutableCollection<E> {\n
 // Modification Operations\n
 /**\n
  * Adds the specified element to the end of this
 list.\n
 */\n
 * @return `true` because the list is always modified as the result of this operation.\n
 */\n
 override
 fun add(element: E): Boolean\n\n
 override fun remove(element: E): Boolean\n\n
 // Bulk Modification

```

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Operations\n /**\n * Adds all of the elements of the specified collection to the end of this list.\n *\n * The
elements are appended in the order they appear in the [elements] collection.\n *\n * @return `true` if the list
was changed as the result of the operation.\n *\n override fun addAll(elements: Collection<E>): Boolean\n\n
/**\n * Inserts all of the elements of the specified collection [elements] into this list at the specified [index].\n
*\n * @return `true` if the list was changed as the result of the operation.\n *\n public fun addAll(index: Int,
elements: Collection<E>):
Boolean\n\n override fun removeAll(elements: Collection<E>): Boolean\n override fun retainAll(elements:
Collection<E>): Boolean\n override fun clear(): Unit\n\n // Positional Access Operations\n /**\n * Replaces
the element at the specified position in this list with the specified element.\n *\n * @return the element
previously at the specified position.\n *\n public operator fun set(index: Int, element: E): E\n\n /**\n *
Inserts an element into the list at the specified [index].\n *\n public fun add(index: Int, element: E): Unit\n\n
/**\n * Removes an element at the specified [index] from the list.\n *\n * @return the element that has been
removed.\n *\n public fun removeAt(index: Int): E\n\n // List Iterators\n override fun listIterator():
MutableListIterator<E>\n\n override fun listIterator(index: Int): MutableListIterator<E>\n\n // View\n override
fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n}\n\n/**\n
* A generic unordered collection of elements that does not support duplicate elements.\n * Methods in this interface
support only read-only access to the set;\n * read/write access is supported through the [MutableSet] interface.\n *
@param E the type of elements contained in the set. The set is covariant in its element type.\n *\n\npublic interface
Set<out E> : Collection<E> {\n // Query Operations\n\n override val size: Int\n override fun isEmpty():
Boolean\n\n override fun contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator():
Iterator<E>\n\n // Bulk Operations\n\n override fun containsAll(elements: Collection<@UnsafeVariance E>):
Boolean\n}\n\n/**\n * A generic unordered collection of elements that does not support duplicate elements, and
supports\n * adding and removing elements.\n * @param E the type of elements contained in the set. The mutable
set is invariant in its element type.\n *\n\npublic interface MutableSet<E> : Set<E>,\n
MutableCollection<E> {\n // Query Operations\n\n override fun iterator(): MutableIterator<E>\n\n //
Modification Operations\n\n /**\n * Adds the specified element to the set.\n *\n * @return `true` if the
element has been added, `false` if the element is already contained in the set.\n *\n override fun add(element:
E): Boolean\n\n override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n\n override
fun addAll(elements: Collection<E>): Boolean\n\n override fun removeAll(elements: Collection<E>): Boolean\n\n
override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear(): Unit\n}\n\n/**\n * A collection
that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each
key. Map keys are unique; the map holds only one value for each key.\n * Methods in this interface support only
read-only access to the map; read-write access is supported through\n * the
[MutableMap] interface.\n * @param K the type of map keys. The map is invariant in its key type, as it\n *
can accept key as a parameter (of [containsKey] for example) and return it in [keys] set.\n * @param V the type of
map values. The map is covariant in its value type.\n *\n\npublic interface Map<K, out V> {\n // Query
Operations\n /**\n * Returns the number of key/value pairs in the map.\n *\n public val size: Int\n\n
/**\n * Returns `true` if the map is empty (contains no elements), `false` otherwise.\n *\n public fun
isEmpty(): Boolean\n\n /**\n * Returns `true` if the map contains the specified [key].\n *\n public fun
containsKey(key: K): Boolean\n\n /**\n * Returns `true` if the map maps one or more keys to the specified
[value].\n *\n public fun containsValue(value: @UnsafeVariance V): Boolean\n\n /**\n * Returns the
value corresponding to the given [key], or `null` if such a key is not present in
the map.\n *\n public operator fun get(key: K): V?\n\n /**\n * Returns the value corresponding to the
given [key], or [defaultValue] if such a key is not present in the map.\n *\n * @since JDK 1.8\n *\n
@Override\n public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n // See default implementation
in JDK sources\n\n throw
NotImplementedError()\n }\n\n // Views\n /**\n * Returns a read-only [Set] of all keys in this map.\n *\n
public val keys: Set<K>\n\n /**\n * Returns a read-only [Collection] of all values in this map. Note that this

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collection may contain duplicate values.\n    */\n    public val values: Collection<V>\n\n    /**\n     * Returns a read-only [Set] of all key/value pairs in this map.\n    */\n    public val entries: Set<Map.Entry<K, V>>\n\n    /**\n     * Represents a key/value pair held by a [Map].\n    */\n    public interface Entry<out K, out V> {\n        /**\n         * Returns the key of this key/value pair.\n        */\n        public val key: K\n\n        /**\n         * Returns the value of this key/value pair.\n        */\n        public val value: V\n    }\n\n    /**\n     * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n     * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n     * @param K the type of map keys. The map is invariant in its key type.\n     * @param V the type of map values. The mutable map is invariant in its value type.\n    */\n    public interface MutableMap<K, V> : Map<K, V> {\n        // Modification Operations\n        /**\n         * Associates the specified [value] with the specified [key] in the map.\n         * @return the previous value associated with the key, or `null` if the key was not present in the map.\n        */\n        public fun put(key: K, value: V): V?\n\n        /**\n         * Removes the specified key and its corresponding value from this map.\n         * @return the previous value associated with the key, or `null` if the key was not present in the map.\n        */\n        public fun remove(key: K): V?\n\n        /**\n         * Removes the entry for the specified key only if it is mapped to the specified value.\n         * @return true if entry was removed\n        */\n        @SinceKotlin("1.1")\n        @PlatformDependent\n        public fun remove(key: K, value: V): Boolean\n\n        // Bulk Modification Operations\n        /**\n         * Updates this map with key/value pairs from the specified map [from].\n        */\n        public fun putAll(from: Map<out K, V>): Unit\n\n        /**\n         * Removes all elements from this map.\n        */\n        public fun clear(): Unit\n\n        // Views\n        /**\n         * Returns a [MutableSet] of all keys in this map.\n        */\n        override val keys: MutableSet<K>\n\n        /**\n         * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate values.\n        */\n        override val values: MutableCollection<V>\n\n        /**\n         * Returns a [MutableSet] of all key/value pairs in this map.\n        */\n        override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n        /**\n         * Represents a key/value pair held by a [MutableMap].\n        */\n        public interface MutableEntry<K, V> : Map.Entry<K, V> {\n            /**\n             * Changes the value associated with the key of this entry.\n             * @return the previous value corresponding to the key.\n            */\n            public fun setValue(newValue: V): V\n        }\n    }\n\n    "/*\n     * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n    // Auto-generated file. DO NOT EDIT!\n\n    package kotlin.collections\n\n    /**\n     * An iterator over a sequence of values of type `Byte`.\n     */\n    public abstract class ByteIterator : Iterator<Byte> {\n        override final fun next() = nextByte()\n\n        /**\n         * Returns the next value in the sequence without boxing.\n        */\n        public abstract fun nextByte(): Byte\n    }\n\n    /**\n     * An iterator over a sequence of values of type `Char`.\n     */\n    public abstract class CharIterator : Iterator<Char> {\n        override final fun next() = nextChar()\n\n        /**\n         * Returns the next value in the sequence without boxing.\n        */\n        public abstract fun nextChar(): Char\n    }\n\n    /**\n     * An iterator over a sequence of values of type `Short`.\n     */\n    public abstract class ShortIterator : Iterator<Short> {\n        override final fun next() = nextShort()\n\n        /**\n         * Returns the next value in the sequence without boxing.\n        */\n        public abstract fun nextShort(): Short\n    }\n\n    /**\n     * An iterator over a sequence of values of type `Int`.\n     */\n    public abstract class IntIterator : Iterator<Int> {\n        override final fun next() = nextInt()\n\n        /**\n         * Returns the next value in the sequence without boxing.\n        */\n        public abstract fun nextInt(): Int\n    }\n\n    /**\n     * An iterator over a sequence of values of type `Long`.\n     */\n    public abstract class LongIterator : Iterator<Long> {\n        override final fun next() = nextLong()\n\n        /**\n         * Returns the next value in the sequence without boxing.\n        */\n        public abstract fun nextLong(): Long\n    }\n\n    /**\n     * An iterator over a sequence of values of type `Float`.\n     */\n    public abstract class FloatIterator : Iterator<Float> {\n        override final fun next() = nextFloat()\n\n        /**\n         * Returns the next value in the sequence without boxing.\n        */\n        public abstract fun nextFloat(): Float\n    }\n\n    /**\n     * An iterator over a sequence of values of type `Double`.\n     */\n    public abstract class DoubleIterator : Iterator<Double> {\n        override final fun next() = nextDouble()\n\n        /**\n         * Returns the next value in the sequence without boxing.\n        */\n        public abstract fun nextDouble(): Double\n    }\n\n    /**\n     * An iterator over a sequence of values of type `Boolean`.\n     */\n    public abstract

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class BooleanIterator : Iterator<Boolean> {
    override final fun next() = nextBoolean()
    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextBoolean(): Boolean
}

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 */
// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

/** An iterator over a progression of values of type `Char`.
 * @property step the number by which the value is incremented on each step.
 */
internal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {
    private val finalElement: Int = last.code
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next: Int = if (hasNext) first.code else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value.toChar()
    }
}

/** An iterator over a progression of values of type `Int`.
 * @property step the number by which the value is incremented on each step.
 */
internal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {
    private val finalElement: Int = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next: Int = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext
    override fun nextInt(): Int {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

/** An iterator over a progression of values of type `Long`.
 * @property step the number by which the value is incremented on each step.
 */
internal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {
    private val finalElement: Long = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next: Long = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext
    override fun nextLong(): Long {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

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 */
// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

import kotlin.internal.getProgressionLastElement

/** A progression of values of type `Char`.
 */
public open class CharProgression(
    internal constructor(
        start: Char,
        endInclusive: Char,
        step: Int
    ) : Iterable<Char> {
    init {
        if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-zero.")
        if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")
    }

    /** The first element in the progression.
     */
    public val first: Char = start

    /** The last element in the progression.
     */
    public val last: Char = getProgressionLastElement(start.code, endInclusive.code, step).toChar()

    /** The step of the progression.
     */
    public val step: Int = step

    override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)

    /** Checks if the progression is empty.
     */
    public fun isEmpty(): Boolean =
        (step > 0 && first > last) || (step < 0 && first < last)

    override fun equals(other: Any?): Boolean =
        other is CharProgression && (isEmpty() && other.isEmpty() ||
            first == other.first && last == other.last && step == other.step)

    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * (31 * first.code + last.code) + step)

    override fun toString(): String =
        if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"
}

companion object {
    /** Creates CharProgression within the specified bounds of a closed range.
     */
    public fun charProgression(
        rangeStart: Char,
        rangeEnd: Char,
        step: Int
    ): CharProgression = CharProgression(rangeStart, rangeEnd, step)

    /** The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].
     */
    /** In order to go backwards the [step] must be negative.
     */
    /** [step] must be greater than `Int.MIN_VALUE` and not equal to zero.
     */
}

```

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*^/n    public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression =
CharProgression(rangeStart, rangeEnd, step)\n    }\n}\n\n/**\n * A progression of values of type `Int`. \n */\npublic
open class IntProgression\n    internal constructor\n    (\n        start: Int,\n        endInclusive: Int,\n        step:
Int\n    ): Iterable<Int> {\n    init {\n        if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-
zero.")\n        if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than
Int.MIN_VALUE to avoid overflow
on negation.")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: Int = start\n\n
/**\n     * The last element in the progression.\n     */\n    public val last: Int = getProgressionLastElement(start,
endInclusive, step)\n\n    /**\n     * The step of the progression.\n     */\n    public val step: Int = step\n\n    override
fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\n\n    /**\n     * Checks if the progression is
empty.\n     */\n    * Progression with a positive step is empty if its first element is greater than the last element.\n
* Progression with a negative step is empty if its first element is less than the last element.\n     */\n    public open
fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n    override fun equals(other: Any?): Boolean =\n
        other is IntProgression && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last &&
step == other.step)\n\n
    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * first + last) + step)\n\n    override fun
toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"\n\n    companion
object {\n        /**\n         * Creates IntProgression within the specified bounds of a closed range.\n         */\n        *
The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the
specified [step].\n         * In order to go backwards the [step] must be negative.\n         */\n        * [step] must be
greater than `Int.MIN_VALUE` and not equal to zero.\n         */\n        public fun fromClosedRange(rangeStart: Int,
rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)\n    }\n}\n\n/**\n * A
progression of values of type `Long`. \n */\npublic open class LongProgression\n    internal constructor\n    (\n
start: Long,\n
    endInclusive: Long,\n        step: Long\n    ): Iterable<Long> {\n    init {\n        if (step == 0L) throw
kotlin.IllegalArgumentException("Step must be non-zero.")\n        if (step == Long.MIN_VALUE) throw
kotlin.IllegalArgumentException("Step must be greater than Long.MIN_VALUE to avoid overflow on
negation.")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: Long = start\n\n
/**\n     * The last element in the progression.\n     */\n    public val last: Long = getProgressionLastElement(start,
endInclusive, step)\n\n    /**\n     * The step of the progression.\n     */\n    public val step: Long = step\n\n    override
fun iterator(): LongIterator = LongProgressionIterator(first, last, step)\n\n    /**\n     * Checks if the
progression is empty.\n     */\n    * Progression with a positive step is empty if its first element is greater than the last
element.\n    * Progression with a negative step is empty if its first element
is less than the last element.\n     */\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else first <
last\n\n    override fun equals(other: Any?): Boolean =\n        other is LongProgression && (isEmpty() &&
other.isEmpty()) ||\n        first == other.first && last == other.last && step == other.step)\n\n    override fun
hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step
xor (step ushr 32))).toInt()\n\n    override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first
downTo $last step ${-step}"\n\n    companion object {\n        /**\n         * Creates LongProgression within the
specified bounds of a closed range.\n         */\n        * The progression starts with the [rangeStart] value and goes
toward the [rangeEnd] value not excluding it, with the specified [step].\n         * In order to go backwards the [step]
must be negative.\n         */\n        * [step]
must be greater than `Long.MIN_VALUE` and not equal to zero.\n         */\n        public fun
fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart,
rangeEnd, step)\n    }\n}\n\n"/n\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.ranges\n\n/**\n * Represents a range of values (for example,
numbers or characters).\n * See the [Kotlin language

```



documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.

```

public interface
ClosedRange<T: Comparable<T>> {
    /**
     * The minimum value in the range.
     */
    public val start: T
    /**
     * The maximum value in the range (inclusive).
     */
    public val endInclusive: T
    /**
     * Checks whether the specified [value] belongs to the range.
     */
    public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive
    /**
     * Checks whether the range is empty.
     * The range is empty if its start value is greater than the end value.
     */
    public fun isEmpty(): Boolean = start > endInclusive
}

```

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The type with only one value: the `Unit` object.

This type corresponds to the `void` type in Java.

```

public object Unit {
    override fun toString() =
        "kotlin.Unit"
}

```

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AnnotationTarget

```

import kotlin.annotation.AnnotationTarget

```

Contains the list of code elements which are the possible annotation targets

```

public enum class AnnotationTarget {
    /** Class, interface or object,
     * annotation class is also included */
    CLASS,
    /** Annotation class only */
    ANNOTATION_CLASS,
    /** Generic type parameter */
    TYPE_PARAMETER,
    /** Property */
    PROPERTY,
    /** Field, including property's backing field */
    FIELD,
    /** Local variable */
    LOCAL_VARIABLE,
    /** Value parameter of a function or a constructor */
    VALUE_PARAMETER,
    /** Constructor only (primary or secondary) */
    CONSTRUCTOR,
    /** Function (constructors are not included) */
    FUNCTION,
    /** Property getter only */
    PROPERTY_GETTER,
    /** Property setter only */
    PROPERTY_SETTER,
    /** Type usage */
    TYPE,
    /** Any expression */
    EXPRESSION,
    /** File */
    FILE,
    /** Type alias */
    @SinceKotlin("1.1")
    TYPEALIAS
}

```

Contains the list of possible annotation's retentions.

Determines how an annotation is stored in binary output.

```

public enum class AnnotationRetention {
    /**
     * Annotation isn't stored in binary output
     */
    SOURCE,
    /**
     * Annotation is stored in binary output, but invisible for reflection
     */
    BINARY,
    /**
     * Annotation is stored in binary output and visible for reflection (default retention)
     */
    RUNTIME
}

```

This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.

If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements: `[CLASS]`, `[PROPERTY]`, `[FIELD]`, `[LOCAL_VARIABLE]`, `[VALUE_PARAMETER]`, `[CONSTRUCTOR]`, `[FUNCTION]`, `[PROPERTY_GETTER]`, `[PROPERTY_SETTER]`.

`@property` allowedTargets list of allowed annotation targets

```

@Target(AnnotationTarget.ANNOTATION_CLASS)
@MustBeDocumented
public annotation class Target(
    vararg val allowedTargets: AnnotationTarget
)

```

This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.

`@property` value necessary annotation retention (`RUNTIME`, `BINARY` or `SOURCE`)

```

@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Retention(
    val value: AnnotationRetention = AnnotationRetention.RUNTIME
)

```

This meta-annotation determines that an annotation is applicable twice or more on a single code element

```

*\/n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Repeatable\n\n/**\n * This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated\n * documentation for the element to which the annotation is applied.\n
*\/n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class MustBeDocumented\n"/*\n * Copyright 2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the "License");\n *\n * you may not use this file except in compliance with the License.\n *\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n
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*\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means it's completely safe to use generic types as argument for such parameter.\n
*\/n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method 'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n
*\/n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PlatformDependent\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a: Int, b: Int): Int {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b: Long): Long {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n
*\/n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n    else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n
*\/n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n    else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@JsName("arrayIterator")\ninternal

```

```

fun arrayIterator(array: dynamic, type: String?) = when (type) {
    null -> {
        val arr: Array<dynamic> = array
        object : Iterator<dynamic> {
            var index = 0
            override fun hasNext() = index < arr.size
            override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")
        }
        "BooleanArray" -> booleanArrayIterator(array)
        "ByteArray" -> byteArrayIterator(array)
        "ShortArray" -> shortArrayIterator(array)
        "CharArray" -> charArrayIterator(array)
        "IntArray" -> intArrayIterator(array)
        "LongArray" -> longArrayIterator(array)
        "FloatArray" -> floatArrayIterator(array)
        "DoubleArray" -> doubleArrayIterator(array)
        else -> throw IllegalStateException("Unsupported type argument for arrayIterator: $type")
    }
}

@JsName("booleanArrayIterator")
internal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("byteArrayIterator")
internal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("shortArrayIterator")
internal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("charArrayIterator")
internal fun charArrayIterator(array: CharArray) = object : CharIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("intArrayIterator")
internal fun intArrayIterator(array: IntArray) = object : IntIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("floatArrayIterator")
internal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("doubleArrayIterator")
internal fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("longArrayIterator")
internal fun longArrayIterator(array: LongArray) = object : LongIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextLong() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("PropertyMetadata")
internal class PropertyMetadata(@JsName("callableName") val name: String) {
    @JsName("noWhenBranchMatched")
    internal fun noWhenBranchMatched(): Nothing = throw NoWhenBranchMatchedException()

    @JsName("subSequence")
    internal fun subSequence(c: CharSequence, startIndex: Int, endIndex: Int): CharSequence {
        if (c is String) {
            return c.substring(startIndex, endIndex)
        } else {
            return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)
        }
    }
}

@JsName("captureStack")
internal fun captureStack(@Suppress("UNUSED_PARAMETER") baseClass: JsClass<in Throwable>, instance: Throwable) {
    if (js("Error").captureStackTrace) {
        // Using uncropped stack traces due to KT-37563.
        // Precise stack traces are implemented in JS IR compiler and stdlib
        js("Error").captureStackTrace(instance)
    } else {
        instance.asDynamic().stack = js("new Error()").stack
    }
}

@JsName("newThrowable")
internal fun newThrowable(message: String?, cause: Throwable?): Throwable {
    val throwable = js("new Error()")
    throwable.message = if (jsTypeOf(message) == "undefined") {
        if (cause != null) cause.toString()
    } else {
        message
    }
    throwable.cause = cause
    throwable.name = "Throwable"
    return throwable
}

@JsName("BoxedChar")
internal

```

```

class BoxedChar(val c: Int) : Comparable<Int> {
    override fun equals(other: Any?): Boolean {
        return other is BoxedChar && c == other.c
    }
    override fun hashCode(): Int {
        return c
    }
    override fun toString(): String {
        return js("this.c").unsafeCast<Char>().toString()
    }
    override fun compareTo(other: Int): Int {
        return js("this.c - other").unsafeCast<Int>()
    }
}
@JsName("valueOf") public fun valueOf(): Int {
    return c
}
}
}
@kotlin.internal.InlineOnly
internal inline fun <T> concat(args: Array<T>): T {
    val typed = js("Array")(args.size)
    for (i in args.indices) {
        val arr = args[i]
        if (arr !is Array<*>) {
            typed[i] = js("[]").slice.call(arr)
        } else {
            typed[i] = arr
        }
    }
    return js("[]").concat.apply(js("[]"), typed)
}
/** Concat regular Array's and
    TypedArray's into an Array.
    *
    * @PublishedApi
    * @JsName("arrayConcat")
    * @Suppress("UNUSED_PARAMETER")
    internal fun <T> arrayConcat(a: T, b: T): T {
        return concat(js("arguments"))
    }
    /** Concat primitive arrays. Main use:
        prepare vararg arguments.
        * For compatibility with 1.1.0 the arguments may be a mixture of Array's and
        TypedArray's.
        * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
        returns a TypedArray, otherwise an Array.
        * If the first argument has the $type$ property (Boolean-, Char-, and
        LongArray) copy its value to result.$type$.
        * If the first argument is a regular Array without the $type$ property
        default to arrayConcat.
        *
        * @PublishedApi
        * @JsName("primitiveArrayConcat")
        * @Suppress("UNUSED_PARAMETER")
        internal fun <T> primitiveArrayConcat(a: T, b: T): T {
            val args: Array<T> = js("arguments")
            if (a is Array<*> &&
                a.asDynamic().`$type$` === undefined) {
                return concat(args)
            } else {
                var size = 0
                for (i in args.indices) {
                    size += args[i].asDynamic().length as Int
                }
                val result = js("new a.constructor(size)")
                kotlin.copyArrayType(a, result)
                size = 0
                for (i in args.indices) {
                    val arr = args[i].asDynamic()
                    for (j in 0 until arr.length) {
                        result[size++] = arr[j]
                    }
                }
                return result
            }
        }
    }
    @JsName("booleanArrayOf")
    internal fun booleanArrayOf() = withType("BooleanArray", js("[]").slice.call(arguments))
    @JsName("charArrayOf")
    // The arguments have to be slice'd here because of Rhino (see KT-16974)
    internal fun charArrayOf() =
        withType("CharArray", js("new
        Uint16Array([]).slice.call(arguments)"))
    @JsName("longArrayOf")
    internal fun longArrayOf() =
        withType("LongArray",
        js("[]").slice.call(arguments))
    @JsName("withType")
    @kotlin.internal.InlineOnly
    internal inline fun withType(type:
    String, array: dynamic): dynamic {
        array.`$type$` = type
        return array
    }
    /** Copyright 2010-2018
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    * Use of this source code is governed by the
    Apache 2.0 license that can be found in the license/LICENSE.txt file.
    *
    * @file: kotlin.js
    *
    * Function
    corresponding to JavaScript's `typeof` operator
    *
    * @kotlin.internal.InlineOnly
    * @Suppress("UNUSED_PARAMETER")
    public inline fun jsTypeOf(a: Any?):
    String = js("typeof a")
    /** Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
    contributors.
    * Use of this source code is governed by the Apache 2.0 license that can be found in the
    license/LICENSE.txt file.
    *
    * @file: Suppress("UNUSED_PARAMETER",
    "NOTHING_TO_INLINE")
    package kotlin
    /** Returns an empty array of the specified type [T].
    *
    * public inline fun <T> emptyArray(): Array<T> = js("[]")
    @library
    public fun <T> arrayOf(vararg
    elements:
    T): Array<T> = definedExternally
    @library
    public fun doubleArrayOf(vararg elements: Double): DoubleArray
    = definedExternally
    @library
    public fun floatArrayOf(vararg elements: Float): FloatArray =
    definedExternally
    @library
    public fun longArrayOf(vararg elements: Long): LongArray =
    definedExternally
    @library
    public fun intArrayOf(vararg elements: Int): IntArray =
    definedExternally
    @library
    public fun charArrayOf(vararg elements: Char): CharArray =
    definedExternally
    @library
    public fun shortArrayOf(vararg elements: Short): ShortArray =

```

```

definedExternally\n\n@library\npublic fun byteArrayOf(vararg elements: Byte): ByteArray =
definedExternally\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray =
definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function
[initializer].\n *\n\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n *
Creates a new
instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode] parameter is
ignored. *\n\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization
function [initializer].\n *\n * The [lock] parameter is ignored.\n *\n\npublic actual fun <T> lazy(lock: Any?,
initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic):
dynamic {\n    val srcLen: Int = src.length\n    val dstLen: Int = dst.length\n    var index: Int = 0\n    while (index <
srcLen && index < dstLen) dst[index] = src[index++]\n    return dst\n}\n\n\ninternal fun arrayCopyResize(source:
dynamic, newSize: Int, defaultValue: Any?): dynamic {\n    val result = source.slice(0, newSize)\n    copyArrayType(source, result)\n    var index: Int = source.length\n    if (newSize > index) {\n
        result.length = newSize\n        while (index < newSize) result[index++] = defaultValue\n    }\n    return
result\n}\n\n\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n    val
result = array.slice()\n    result.length += collection.size\n    copyArrayType(array, result)\n    var index: Int =
array.length\n    for (element in collection) result[index++] = element\n    return result\n}\n\n\ninternal fun <T>
fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\n    var index = startIndex\n
for (element in collection) dst[index++] = element\n    return dst\n}\n\n\ninternal inline fun copyArrayType(from:
dynamic, to: dynamic) {\n    if (from.`$type$` !== undefined) {\n        to.`$type$` = from.`$type$`\n
    }\n}\n\n\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass),"/*\n *
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of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin\n\n/**\n * Creates a Char with the specified [code].\n *\n * @sample
samples.text.Chars.charFromCode\n
*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
actual inline fun Char(code: UShort): Char {\n    return code.toInt().toChar()\n}\n\n",/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin("1.3")\n@JsName("CoroutineImpl")\n\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>
{\n    protected var state = 0\n    protected var exceptionState = 0\n    protected var result: Any? =
null\n    protected var exception: Throwable? = null\n    protected var finallyPath: Array<Int>? = null\n    public
override val context: CoroutineContext = resultContinuation.context\n    private var intercepted_:
Continuation<Any?>? = null\n    public fun intercepted(): Continuation<Any?> =\n        intercepted_\n        ?:
(context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n        .also { intercepted_ = it }\n    public
override fun resumeWith(result: Result<Any?>) {\n        var current = this\n        var currentResult: Any? =
result.getOrNull()\n        var currentException: Throwable? = result.exceptionOrNull()\n        // This loop unrolls
recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n        while (true) {\n
            with(current) {\n                val completion = resultContinuation\n                // Set result and exception fields in
the current continuation\n                if (currentException
== null) {\n                    this.result = currentResult\n                } else {\n                    state = exceptionState\n
                    exception = currentException\n                }\n                try {\n                    val outcome = doResume()\n
                    if (outcome === COROUTINE_SUSPENDED) return\n                    currentResult = outcome\n
                } catch (exception: dynamic) { // Catch all exceptions\n                    currentResult = null\n
                    currentException = exception.unsafeCast<Throwable>()\n                }\n                releaseIntercepted() // this state machine instance is terminating\n                if (completion is CoroutineImpl) {\n

```

```

        // unrolling recursion via loop\n        current = completion\n        } else {\n        // top-level completion reached -- invoke and return\n        currentException?.let\n        {\n        completion.resumeWithException(it)\n        } ?: completion.resume(currentResult)\n        return\n        }\n        }\n        }\n        }\n        private fun releaseIntercepted() {\n        val intercepted = intercepted_\n        if (intercepted != null && intercepted !== this) {\n        context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n        }\n        this.intercepted_ = CompletedContinuation // just in case\n        }\n        protected abstract fun doResume(): Any?\n        }\n        internal object CompletedContinuation : Continuation<Any?> {\n        override val context: CoroutineContext\n        get() = error(\"This continuation is already complete\")\n        override fun resumeWith(result: Result<Any?>) {\n        error(\"This continuation is already complete\")\n        }\n        override fun toString(): String = \"This continuation is already complete\"\n        }\n        /*\n        * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n        * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n        */\n        @file:Suppress(\"UNCHECKED_CAST\", \"RedundantVisibilityModifier\")\n        package kotlin\n        import kotlin.contracts.*\n        import kotlin.internal.InlineOnly\n        import kotlin.jvm.JvmField\n        import kotlin.jvm.JvmInline\n        import kotlin.jvm.JvmName\n        /**\n        * A discriminated union that encapsulates a successful outcome with a value of type [T] or a failure with an arbitrary [Throwable] exception.\n        * Since Kotlin 1.3\n        * @JvmInline\n        * public value class Result<out T> @PublishedApi internal constructor(\n        * @PublishedApi\n        * internal val value: Any?) : Serializable {\n        * // discovery\n        * /**\n        * Returns `true` if this instance represents a successful outcome.\n        * In this case [isFailure] returns `false`.\n        * @ public val isSuccess: Boolean get() = value !is Failure\n        * /**\n        * Returns `true` if this instance represents a failed outcome.\n        * In this case [isSuccess] returns `false`.\n        * @ public val isFailure: Boolean get() = value is Failure\n        * // value & exception retrieval\n        * /**\n        * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or `null` if it is [failure][Result.isFailure].\n        * This function is a shorthand for `getOrElse { null }` (see [getOrElse]) or `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n        * @InlineOnly\n        * public inline fun getOrNull(): T? =\n        * when {\n        * isFailure -> null\n        * else -> value as T\n        * }\n        * /**\n        * Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null` if it is [success][isSuccess].\n        * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })` (see [fold]).\n        * @ public fun exceptionOrNull(): Throwable? =\n        * when (value) {\n        * is Failure -> value.exception\n        * else -> null\n        * }\n        * /**\n        * Returns a string `Success(v)` if this instance represents [success][Result.isSuccess] where `v` is a string representation of the value or a string `Failure(x)` if it is [failure][isFailure] where `x` is a string representation of the exception.\n        * @ public override fun toString(): String =\n        * when (value) {\n        * is Failure -> value.toString() // \"Failure($exception)\"\n        * else -> \"Success($value)\"\n        * }\n        * // companion with constructors\n        * /**\n        * Companion object for [Result] class that contains its constructor functions [success] and [failure].\n        * @ public companion object {\n        * /**\n        * Returns an instance that encapsulates the given [value] as successful value.\n        * @\n        * @Suppress(\"INAPPLICABLE_JVM_NAME\")\n        * @InlineOnly\n        * @JvmName(\"success\")\n        * public inline fun <T> success(value: T): Result<T> =\n        * Result(value)\n        * /**\n        * Returns an instance that encapsulates the given [Throwable] [exception] as failure.\n        * @\n        * @Suppress(\"INAPPLICABLE_JVM_NAME\")\n        * @InlineOnly\n        * @JvmName(\"failure\")\n        * public inline fun <T> failure(exception: Throwable): Result<T> =\n        * Result(createFailure(exception))\n        * }\n        * internal class Failure(\n        * @JvmField\n        * val exception: Throwable\n        * ): Serializable {\n        * override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception\n        * override fun hashCode(): Int = exception.hashCode()\n        * override fun toString(): String = \"Failure($exception)\"\n        * }\n        * /**\n        * Creates an instance of internal marker [Result.Failure] class to make sure that this class is not exposed in ABI.\n        * @\n        * @PublishedApi\n        * @SinceKotlin(\"1.3\")\n        * internal

```

```

fun createFailure(exception: Throwable): Any = \n  Result.Failure(exception)\n\n/**\n * Throws exception if the
result is failure. This internal function minimizes\n * inlined bytecode for [getOrThrow] and makes sure that in the
future we can\n * add some exception-augmenting logic here (if needed).\n
*/\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun Result<*>.throwOnFailure() {\n  if (value is
Result.Failure) throw value.exception\n}\n\n/**\n * Calls the specified function [block] and returns its encapsulated
result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the [block]
function execution and encapsulating it as a failure.\n */\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun
<R> runCatching(block: () -> R): Result<R> {\n  return try {\n    Result.success(block())\n  } catch (e:
Throwable) {\n    Result.failure(e)\n  }\n}\n\n/**\n * Calls the specified function [block] with `this` value as its
receiver and returns
its encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from
the [block] function execution and encapsulating it as a failure.\n */\n@InlineOnly\n@SinceKotlin("1.3")\npublic
inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\n  return try {\n    Result.success(block())\n  }
catch (e: Throwable) {\n    Result.failure(e)\n  }\n}\n\n// -- extensions ---\n\n/**\n * Returns the encapsulated
value if this instance represents [success][Result.isSuccess] or throws the encapsulated [Throwable] exception\n * if
it is [failure][Result.isFailure].\n */\n * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).\n
*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.getOrThrow(): T {\n
throwOnFailure()\n  return value as T\n}\n\n/**\n * Returns the encapsulated value if this instance represents
[success][Result.isSuccess] or the\n * result of [onFailure] function for the
encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n */\n * Note, that this function rethrows any
[Throwable] exception thrown by [onFailure] function.\n */\n * This function is a shorthand for `fold(onSuccess = {
it }, onFailure = onFailure)` (see [fold]).\n */\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R>
Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\n  contract {\n    callsInPlace(onFailure,
InvocationKind.AT_MOST_ONCE)\n  }\n  return when (val exception = exceptionOrNull()) {\n    null ->
value as T\n    else -> onFailure(exception)\n  }\n}\n\n/**\n * Returns the encapsulated value if this instance
represents [success][Result.isSuccess] or the\n * [defaultValue] if it is [failure][Result.isFailure].\n */\n * This
function is a shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\n
*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.getOrElse(defaultValue: R):
R {\n
  if (isFailure) return defaultValue\n  return value as T\n}\n\n/**\n * Returns the result of [onSuccess] for the
encapsulated value if this instance represents [success][Result.isSuccess]\n * or the result of [onFailure] function for
the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n */\n * Note, that this function rethrows
any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.\n
*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.fold(\n  onSuccess: (value: T) ->
R,\n  onFailure: (exception: Throwable) -> R\n): R {\n  contract {\n    callsInPlace(onSuccess,
InvocationKind.AT_MOST_ONCE)\n    callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n  }\n  return when (val exception = exceptionOrNull()) {\n    null -> onSuccess(value as T)\n    else ->
onFailure(exception)\n  }\n}\n\n// transformation\n\n/**\n * Returns the encapsulated result of the given
[transform] function applied to the
encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated
[Throwable] exception if it is [failure][Result.isFailure].\n */\n * Note, that this function rethrows any [Throwable]
exception thrown by [transform] function.\n * See [mapCatching] for an alternative that encapsulates exceptions.\n
*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R):
Result<R> {\n  contract {\n    callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n  }\n  return when
{\n    isSuccess -> Result.success(transform(value as T))\n    else -> Result(value)\n  }\n}\n\n/**\n * Returns
the encapsulated result of the given [transform] function applied to the encapsulated value\n * if this instance
represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is
[failure][Result.isFailure].\n */\n * This function catches any [Throwable] exception thrown

```

by [transform] function and encapsulates it as a failure.\n \* See [map] for an alternative that rethrows exceptions from `transform` function.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n return when {\n isSuccess -> runCatching { transform(value as T) }\n else -> Result(value)\n }\n}\n\n/\*\*\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n \* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \*/\n \* Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n \* See [recoverCatching] for an alternative that encapsulates exceptions.\n\n\*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT\_MOST\_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> Result.success(transform(exception))\n }\n}\n\n/\*\*\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n \* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \*/\n \* This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n \* See [recover] for an alternative that rethrows exceptions.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> runCatching { transform(exception) }\n }\n}\n\n/\*\*\n \* Performs the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].\n \* Returns the original `Result` unchanged.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT\_MOST\_ONCE)\n }\n exceptionOrNull()?.let { action(it) }\n return this\n}\n\n/\*\*\n \* Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].\n \* Returns the original `Result` unchanged.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT\_MOST\_ONCE)\n }\n if (isSuccess) action(value as T)\n return this\n}\n\n-----\n--\n"/\n \* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n\*/\n\npackage kotlin.coroutines\n\nimport kotlin.contracts.\*\nimport kotlin.coroutines.intrinsics.\*\nimport kotlin.internal.InlineOnly\n\n/\*\*\n \* Interface representing a continuation after a suspension point that returns a value of type `T`.\n \*/\n@SinceKotlin("1.3")\npublic interface Continuation<in T> {\n /\*\*\n \* The context of the coroutine that corresponds to this continuation.\n \*/\n public val context: CoroutineContext\n\n /\*\*\n \* Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n \* return value of the last suspension point.\n \*/\n public fun resumeWith(result: Result<T>)\n}\n\n/\*\*\n \* Classes and interfaces marked with this annotation are restricted when used as receivers for extension\n \* `suspend` functions. These `suspend` extensions can only invoke other member or extension\n \* `suspend` functions on this particular\n \* receiver and are restricted from calling arbitrary suspension functions.\n \*/\n@SinceKotlin("1.3")\n@Target(AnnotationTarget.CLASS)\n@Retention(AnnotationRetention.BINARY)\npublic annotation class RestrictsSuspension\n\n/\*\*\n \* Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.\n \*/\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resume(value: T): Unit =\n resumeWith(Result.success(value))\n\n/\*\*\n \* Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the\n \* last suspension point.\n \*/\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =\n resumeWith(Result.failure(exception))\n\n/\*\*\n \* Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.\n \*/\n@SinceKotlin("1.3")\n@InlineOnly\npublic



```

inline fun <T> Continuation(\n context: CoroutineContext,\n crossinline resumeWith: (Result<T>) -> Unit)\n):
Continuation<T> =\n object : Continuation<T> {\n override val context: CoroutineContext\n get() =
context\n\n override fun resumeWith(result: Result<T>) =\n resumeWith(result)\n }\n\n/**\n * Creates
a coroutine without a receiver and with result type [T].\n * This function creates a new, fresh instance of
suspendable computation every time it is invoked.\n * To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the
coroutine completes with a result or an exception.\n * Subsequent invocation of any resume function on the
resulting continuation will produce an [IllegalStateException].\n
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).createCoroutine(\n completion: Continuation<T>)\n):
Continuation<Unit> =\n SafeContinuation(createCoroutineUnintercepted(completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**\n * Creates a coroutine with receiver type [R] and result type [T].\n * This
function creates a new, fresh instance of suspendable computation every time it is invoked.\n * To start
executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The
[completion] continuation is invoked when the coroutine completes with a result or an exception.\n * Subsequent
invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\n
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend R.() ->
T).createCoroutine(\n receiver: R,\n completion: Continuation<T>)\n): Continuation<Unit> =\n
SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**\n * Starts a coroutine without a receiver
and with result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation every
time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or an
exception.\n *
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).startCoroutine(\n completion: Continuation<T>)\n) {\n
createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver
type [R] and result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation
every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or
an exception.\n *
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend
R.() -> T).startCoroutine(\n receiver: R,\n completion: Continuation<T>)\n) {\n
createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n * Obtains the current
continuation instance inside suspend functions and suspends\n * the currently running
coroutine.\n * In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used
either synchronously in\n * the same stack-frame where the suspension function is run or asynchronously later in the
same thread or\n * from a different thread of execution. Subsequent invocation of any resume function will produce
an [IllegalStateException].\n *
*\n@SinceKotlin("1.3")\n@InlineOnly\npublic suspend inline fun <T>
suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n contract { callsInPlace(block,
InvocationKind.EXACTLY_ONCE) }\n return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> -
->\n val safe = SafeContinuation(c.intercepted())\n block(safe)\n safe.getOrThrow()\n }\n}\n\n/**\n * Returns the context of the current coroutine.\n
*\n@SinceKotlin("1.3")\n@Suppress("WRONG_MODIFIER_TARGET")\n@InlineOnly\npublic
suspend inline val coroutineContext: CoroutineContext\n get() {\n throw
NotImplementedError("Implemented as intrinsic")\n }\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *
*\npackage kotlin.coroutines.intrinsics\n\nimport
kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Starts an unintercepted coroutine without a receiver
and with result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or
throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the
[completion] continuation is invoked when the coroutine completes with a result or an exception.\n *
*\n * The

```

coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

```

@SinceKotlin("1.3")@InlineOnly
public actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(
    completion: Continuation<T>): Any? =
    this.asDynamic()(completion, false)

```

Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension. Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE\_SUSPENDED] if it suspends. In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception. The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

```

@SinceKotlin("1.3")@InlineOnly
public actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(
    receiver: R, completion: Continuation<T>): Any? =
    this.asDynamic()(receiver, completion, false)

```

internal actual inline fun <R, P, T> (suspend R.(P) -> T).startCoroutineUninterceptedOrReturn(
 receiver: R, param: P, completion: Continuation<T>): Any? = this.asDynamic()(receiver, param, completion, false)

Creates unintercepted coroutine without receiver and with result type [T]. This function creates a new, fresh instance of suspendable computation every time it is invoked. To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance. The [completion] continuation is invoked when coroutine completes with result or exception. This function returns unintercepted continuation. Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. Note that [completion] of this function may get invoked in an arbitrary context. [Continuation.intercepted] can be used to acquire the intercepted continuation. Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and [completion] happens in the invocation context established by [ContinuationInterceptor]. Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

@SinceKotlin("1.3")
public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(
    completion: Continuation<T>): Continuation<Unit> =
    // Kotlin/JS suspend lambdas have an extra parameter `suspended`
    if (this.asDynamic().length == 2) {
        // When `suspended` is true the continuation is created, but not executed
        this.asDynamic()(completion, true)
    } else {
        createCoroutineFromSuspendFunction(completion) {
            this.asDynamic()(completion)
        }
    }

```

Creates unintercepted coroutine with receiver type [R] and result type [T]. This function creates a new, fresh instance of suspendable computation every time it is invoked. To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance. The [completion] continuation is invoked when coroutine completes with result or exception. This function returns unintercepted continuation. Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. Note that [completion] of this function may get invoked in an arbitrary context. [Continuation.intercepted] can be used to acquire the intercepted continuation. Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and [completion] happens in the invocation context established by [ContinuationInterceptor]. Repeated invocation of any resume function on the resulting continuation

corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

* Since Kotlin("1.3")
public actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(
receiver: R,
completion: Continuation<T>): Continuation<Unit> =
// Kotlin/JS suspend lambdas have an
extra parameter `suspended`
if (this.asDynamic().length == 3) {
// When `suspended` is true the
continuation is created, but not executed
this.asDynamic()(receiver, completion, true)
} else {
createCoroutineFromSuspendFunction(completion) {
this.asDynamic()(receiver, completion)
}
}
}
* Intercepts this continuation with [ContinuationInterceptor].
* This function shall be used on the
immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],
in which
case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context],
invokes
[ContinuationInterceptor.interceptContinuation], caches and returns the result.
* If this function is invoked on
other [Continuation] instances it returns `this` continuation unchanged.
* Since Kotlin("1.3")
public actual
fun <T> Continuation<T>.intercepted(): Continuation<T> =
(this as? CoroutineImpl)?.intercepted() ?:
this
private inline fun <T> createCoroutineFromSuspendFunction(
completion: Continuation<T>,
crossinline block: () -> Any?): Continuation<Unit> {
@Suppress("UNCHECKED_CAST")
return object
: CoroutineImpl(completion as Continuation<Any?>) {
override fun doResume(): Any? {
exception?.let { throw it }
return block()
}
}
}
}
* Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.
* Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.
* package kotlin.js
// Mirrors signature
from JS IR BE
Used for
js.translator/testData/box/number/mulInt32.kt
@library
@jsName("imulEmulated")
@Suppress("UNUSED_PARAMETER")
internal fun imul(x: Int, y: Int): Int =
definedExternally
@Suppress("NOTHING_TO_INLINE")
internal inline fun isArrayish(o: dynamic) =
js("Kotlin").isArrayish(o)
}
}
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.
* Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
* package kotlin
// NOTE: Do not author your exceptions as they are written in
this file, instead use this template:
public open class MyException : Exception {
constructor() : super()
constructor(message: String?) : super(message)
constructor(message: String?, cause: Throwable?) :
super(message, cause)
constructor(cause: Throwable?) : super(cause)
}
* TODO: remove primary
constructors, make all secondary
KT-22055
@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public
actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?:
null) {
actual constructor() : this(null, null)
actual constructor(message: String?) : this(message, null)
actual constructor(cause: Throwable?) : this(undefi-
ned,
cause)
}
@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public actual open class Exception actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {
actual constructor() :
this(null, null)
actual constructor(message: String?) : this(message, null)
actual constructor(cause:
Throwable?) : this(undefi-
ned, cause)
}
public actual open class RuntimeException actual constructor(message:
String?, cause: Throwable?) : Exception(message, cause) {
actual constructor() : this(null, null)
actual
constructor(message: String?) : this(message, null)
actual constructor(cause: Throwable?) : this(undefi-
ned,
cause)
}
public actual open class IllegalArgumentException actual constructor(message: String?, cause:
Throwable?) : RuntimeException(message, cause) {
actual constructor() : this(null, null)
actual
constructor(message: String?) : this(message, null)
actual constructor(cause: Throwable?) : this(undefi-
ned,
cause)
}
public actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {
actual constructor() : this(null, null)
actual constructor(message:
String?) : this(message, null)
actual constructor(cause: Throwable?) : this(undefi-
ned, cause)
}
public actual
open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {
actual
constructor() : this(null)
}
public actual open class ConcurrentModificationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {
actual constructor()

```

```

: this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefiend, cause)\n}\n\npublic actual open class UnsupportedOperationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefiend, cause)\n}\n\npublic actual open class NumberFormatException actual
constructor(message: String?) : IllegalArgumentException(message) {\n actual constructor() :
this(null)\n}\n\npublic actual open class NullPointerException actual constructor(message: String?) :
RuntimeException(message) {\n actual constructor() : this(null)\n}\n\npublic actual open class
ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n actual constructor() :
this(null)\n}\n\npublic actual open class
AssertionError\n@SinceKotlin("1.4")\nconstructor(message: String?, cause: Throwable?) : Error(message, cause)
{\n actual constructor() : this(null)\n constructor(message: String?) : this(message, null)\n actual
constructor(message: Any?) : this(message.toString(), message as? Throwable)\n}\n\npublic actual open class
NoSuchElementException actual constructor(message: String?) : RuntimeException(message) {\n actual
constructor() : this(null)\n}\n\n@SinceKotlin("1.3")\n\npublic actual open class ArithmeticException actual
constructor(message: String?) : RuntimeException(message) {\n actual constructor() : this(null)\n}\n\npublic
actual open class NoWhenBranchMatchedException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual constructor(message:
String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\npublic actual
open class
UninitializedPropertyAccessException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual constructor(message:
String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\n/*\n *
Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by the Apache 2.0 license\n * that can be
found in the license/LICENSE.txt file.\n *^\n\n@file:Suppress("UNUSED_PARAMETER")\n\npackage
kotlin.js\n\n@kotlin.internal.InlineOnly\n\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\n
js("delete obj[property]")\n}\n\n@kotlin.internal.InlineOnly\n\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs:
Any?): Int =\n js("lhs | rhs").unsafeCast<Int>(),"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt
file.\n *^\n\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *^\n * If
[sign] is `NaN` the sign of the result is undefined.\n *^\n\n@SinceKotlin("1.2")\n\npublic actual fun
Double.withSign(sign: Double): Double {\n val thisSignBit =
js("Kotlin").doubleSignBit(this).unsafeCast<Int>()\n val newSignBit =
js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()\n return if (thisSignBit == newSignBit) this else -
this\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*^\n\npackage kotlin\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n *
according to the IEEE 754 floating-point "double format" bit layout.\n
*^\n\n@SinceKotlin("1.2")\n\n@library("doubleToBits")\n\npublic actual fun Double.toBits(): Long =
definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n *
according to the IEEE 754 floating-
point "double format" bit layout,\n * preserving `NaN` values exact layout.\n
*^\n\n@SinceKotlin("1.2")\n\n@library("doubleToRawBits")\n\npublic actual fun Double.toRawBits(): Long =
definedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n
*^\n\n@SinceKotlin("1.2")\n\n@kotlin.internal.InlineOnly\n\npublic actual inline fun Double.Companion.fromBits(bits:
Long): Double = js("Kotlin").doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation
of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point "single format" bit

```

```

layout.\n * \n * Note that in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,\n * so
some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n
*\n@\n@SinceKotlin("1.2")\n@library("floatToBits")\npublic
actual fun Float.toBits(): Int = definedExternally\n\n/**\n * Returns a bit representation of the specified floating-
point value as [Int]\n * according to the IEEE 754 floating-point "single format" bit layout,\n * preserving NaN
values exact layout.\n * \n * Note that in Kotlin/JS [Float] range is wider than "single format" bit layout can
represent,\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and
back.\n * \n@\n@SinceKotlin("1.2")\n@library("floatToRawBits")\npublic actual fun Float.toRawBits(): Int =
definedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n
*\n@\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Float.Companion.fromBits(bits:
Int): Float =
js("Kotlin").floatFromBits(bits).unsafeCast<Float>()\n\n@\n@Suppress("NOTHING_TO_INLINE")\n\ninternal
inline fun Long(low: Int, high: Int) = js("Kotlin").Long.fromBits(low,
high).unsafeCast<Long>()\n\ninternal inline val Long.low: Int get() =
this.asDynamic().getLowBits().unsafeCast<Int>()\n\ninternal inline val Long.high: Int get() =
this.asDynamic().getHighBits().unsafeCast<Int>()\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * \n@\n@nimport kotlin.reflect.KClass\n@\n@PublishedApi\n\ninternal fun <T :
Annotation> KClass<*>.findAssociatedObject(@Suppress("UNUSED_PARAMETER") annotationClass:
KClass<T>): Any? {\n // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\n
return null\n}\n\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@\n@npackage kotlin.text\n\n/**\n * Returns a string representation
of this [Long] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n * \n@\n@SinceKotlin("1.2")\n\npublic actual fun Long.toString(radix: Int):
String = asDynamic().toString(checkRadix(radix))\n\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * \n@\n@npackage kotlin.text\n\n/\n\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateUnicodeData.kt\n\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\n// 1343 ranges totally\n\nprivate object Category
{\n val decodedRangeStart: IntArray\n val decodedRangeCategory: IntArray\n \n init {\n val toBase64 =
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/"\n val fromBase64 =
IntArray(128)\n for (i in toBase64.indices) {\n
fromBase64[toBase64[i].code] = i\n } \n \n // rangeStartDiff.length = 1482\n val
rangeStartDiff =
"BgBCFEDCKCDCaDDaDBhBCEEDDDDDDEDXBHYBH5BRwBGDCHDCIDFHDCHFDCDEIRTEE7BGHDDJI
CBbSEMOfGERwDEDDDDDECEFCRBjBFDCYFFCCzBvBjBBFC3BohDBmBDGpBDDCtBBJlBEELGDFC
LDCgBBKVKEDiDDHCFECECKCEODBebC5CLBOKhBJDDDDWEBHFCCPBZDEL1BVBSLPBgBB2BDB
DICFBHKCKCPDBHEDWBHEDDDDEDEDIBDGDCKCCGDDDCGECWBFMDDCDEDDCHDDHKDDDBK
DBHF CWBFGFDBDDFEDBPDDKCHBGDCHEDWBFDFDCEDEDBHDDGDCKCGJEGDBFDDFDDEDDME
FDBFDCGBOKDFDFDCGFCXBQDDDDDBEGEDFDDKHBHDDGFCXBKBFCEFCFCHCHECKDNCCHFC
oBEDECFDDDDHDCKJBGDcSDYBJEHBFDDEBIGKDCMuBFHEBGBIBKCKbFBFBXEIFJDFDGCKCEgB
BDPEDGKKGECIBkBEObDFFLBkBBIBEFCECIBrBCEBEGDBKGGDDDDDDCHDENDCFEKDDIBDDFrBCD
pKBECGEECPBBEChBBECGEECPB5BBECjCCDJUDQKG2CCGDsTCRbaCDrCDDIHNBEDLSDCJSCMLFC
CM0BDHGFLBFDDKKGGEFDDBKGjBB1BHfChBDFmCKfDDDDDDCGDCFDKeCFLsBEaGKBdiBXDDD1
BDGDEIGJEKGGHGBGCMF/BEBvBCEDDFHEKHKJDDDeDDGDksBFEDCIEkBIICCFDKDDKeGcJHrBCDI
IDBNBHEBEFDBFsB/BNBiBIB6BBF1EiDiJIGCGCIIIIGCGCIIIIOCIIIIFEDDBFEDDDDEBDIFDDFEDBLF
GCEEICFBJCDEDCLDKBFBKCCGDDKDDNDgBQNEBDMPPFFDEDEBFFHECEBEEDFBEDDQjBCEDEFFC

```



```

IntArray { \n  val result = IntArray(resultLength)\n  var index = 0\n  var int = 0\n  var shift = 0\n  for (char in
base64) { \n    val sixBit = fromBase64[char.code]\n    int = int or ((sixBit and 0x1f) shl shift)\n    if (sixBit <
0x20) { \n      result[index++] = int\n      int = 0\n      shift = 0\n    } else { \n      shift += 5\n    } \n
} \n  return result\n}\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED
by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-
place.\n */\npublic actual fun <T> MutableList<T>.reverse():
Unit { \n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex = lastIndex\n  for (index in
0..midPoint) { \n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\n
reverseIndex--\n  } \n}\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n// 37 ranges
totally\nprivate object Digit { \n  internal val rangeStart = intArrayOf(\n    0x0030, 0x0660, 0x06f0, 0x07c0,
0x0966, 0x09e6, 0x0a66, 0x0ae6, 0x0b66, 0x0be6, 0x0c66, 0x0ce6, 0x0d66, 0x0de6, 0x0e50, 0x0ed0, 0x0f20,
0x1040, 0x1090, 0x17e0, \n    0x1810, 0x1946, 0x19d0, 0x1a80, 0x1a90, 0x1b50,
0x1bb0, 0x1c40, 0x1c50, 0xa620, 0xa8d0, 0xa900, 0xa9d0, 0xa9f0, 0xaa50, 0xabf0, 0xff10, \n  )\n}\n\n/**\n *
Returns the index of the largest element in [array] smaller or equal to the specified [needle],\n * or -1 if [needle] is
smaller than the smallest element in [array].\n */\ninternal fun binarySearchRange(array: IntArray, needle: Int): Int
{ \n  var bottom = 0\n  var top = array.size - 1\n  var middle = -1\n  var value = 0\n  while (bottom <= top) { \n
middle = (bottom + top) / 2\n  value = array[middle]\n  if (needle > value)\n    bottom = middle + 1\n  else if (needle == value)\n    return middle\n  else\n    top = middle - 1\n } \n  return middle - (if
(needle < value) 1 else 0)\n}\n\n/**\n * Returns an integer from 0..9 indicating the digit this character represents,\n *
or -1 if this character is not a digit.\n */\ninternal fun Char.digitToIntImpl(): Int { \n  val ch = this.code\n  val
index = binarySearchRange(Digit.rangeStart,
ch)\n  val diff = ch - Digit.rangeStart[index]\n  return if (diff < 10) diff else -1\n}\n\n/**\n * Returns `true` if this
character is a digit.\n */\ninternal fun Char.isDigitImpl(): Boolean { \n  return digitToIntImpl() >= 0\n}\n", "/*\n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n// 222 ranges totally\nprivate object Letter { \n
val decodedRangeStart: IntArray\n  val decodedRangeLength: IntArray\n  val decodedRangeCategory: IntArray\n
\n  init { \n    val toBase64 =
\"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\n    val fromBase64 =
IntArray(128)\n    for (i in toBase64.indices)
{ \n      fromBase64[toBase64[i].code] = i\n    } \n    // rangeStartDiff.length = 356\n    val
rangeStartDiff =
\"hCgBpCQGYHZH5BRpBPPPPPRMP5BPPICPP6BkEPPPPcXPzPzVvBrB3BOiDoBHwD+E3DauCnFmBmB2D
6E1BIBTiBmBIBP5BhBiBrBvBjBqBnBPRtBiCmCtBIB0BmB5BiB7BmBgEmChBZgCoEoGVpBSfRhBPqKQ2B
wBYoFgB4CJuTiEvBuCuDrF5DgEgFIJ1DgFmBQtBsBRGsB+BPiBID1EiJdPRPPPPPPPPPGQSQS/DxENVNU+
B9zCwBwBPPcKDPNnBPqDYY1R8B7FkFgTgwGgwUwmBgKwBuBScmEP/BPPPPPrBP8B7F1B/ErBqC6B7B
iBmBfQsBUwCw/KwqIwLwETPcPjQgJxFgBIBsD\"\n    val diff = decodeVarLenBase64(rangeStartDiff,
fromBase64, 222)\n    val start = IntArray(diff.size)\n    for (i in diff.indices) { \n      if (i == 0) start[i] =
diff[i]\n      else start[i] = start[i - 1] + diff[i]\n    } \n    decodedRangeStart = start\n    //
rangeLength.length = 328\n    val rangeLength =
\"aaMBXHYH5BRpBPPPPPRMP5BPPICPPzBDOOPPcXPzPzVvBjB3BOhDmBBpB7DoDYxB+EiBP1DoExBkB

```

QhBekBPmBgBhBctBiBMWOOXhCsBpBkBUV3Ba4BkB0DiCgBXgBtD4FSdBfPhBPpKP0BvBXjEQ2CGsT8Dh  
BtCqDpFvD1D3E0IrD2EkBJrBDOBsB+BPiBIB1EIJDPppppppppppGPPMNLsBNPNPKCvBvBPPCkDPBmBPh  
DXXgD4B6FzEgDguG9vUtkB9JcuBSckEP/BPPppppBPf4FrBjEhBpC3B5BKaWPrBOWCk/KsCuLqDHPbPxPsFt  
EaaqDL\"n

```
    decodedRangeLength = decodeVarLenBase64(rangeLength, fromBase64, 222)\n    \n    //  
rangeCategory.length = 959\n    val rangeCategory =  
\"GFjgggUHGFFZZZmzpz5qB6s6020B60ptltB6smt2sB60mz22B1+vv+8BZZ5s2850BW5q1ymtB506smzBF3q1  
q1qB1q1q1+Bgii4wDTm74g3KigxqM60q1q1Bq1o1q1BF1qlrqrBZ2q5wprBGFZWWZGHFsjiioLowgmOowjkw  
CkgoiIk7ligGogioBkwkiYkzj2oNoi+sbkwj04DghhkQ8wgiYkgoioDsgnkWC4gikQ//v+85BkwvoIsgoyl4ygu0whiw  
Eowri4CoghsJowgqYowgm4DkwgsY/nwzPowhmYkg6wI8yggZswikwHgxgmIoxgqYkwgk4DkxgmIkgoioBsgsso  
BgzgyI8g9gL8g9ki0wgwJoxgkoC0wgioFkw/wI0w53iF4gioYowjmgBHGq1qkgwBF1q1q8qBHwghuIwghyKk0go  
QkwgoQk3goQHGFHkyg0pBgxj6IoinkxDswno7Ikwhz9Bo0gioB8z48Rwli0xN0mpjoX8w78pDwltoqKHFGGwwg  
sIHFH3q1q16BFHWFZ1q10q1B2qlwq1B1q10q1B2q1yq1B6q1gq1Biq1qhxBir1qp1Bqt1q1q1B1g1q1+B//3q16B///q  
1qBH/qlq9Bholq9B1i00a1q10qD1op1HkwmigEigiy6Cptogq1Bixo1kDq7/j00B2qgoBWGFm1lz50B6s5q1+BG  
WhggzhwBFFhgk4//Bo2jigE8wguI8wguI8wguUog1qoB4qjmIwwi2KkgYHHH4IBgiFWkgIWoghssMmz5smrBZ  
3q1y50B5sm7gzBtz1smzB5smz50BqzqtmzB5sgzqzBF2/9//5BowgoIwmnkzPkwgk4C8ys65BkgoqI0wgy6FghquZo  
2giY0ghiIsgH24B4ghsQ8QF/v1q1OFs0O8iCHHF1qggz/B8wg6Iznv+//B08QgohsjK0QGfK7hsQ4gB\"n
```

```
    decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 222)\n    }\n}\n\n/* Returns  
`true` if this character is a letter.\n */\ninternal fun Char.isLetterImpl(): Boolean {\n    return getLetterType() !=  
0\n}\n\n/* Returns `true` if this character is a lower case letter, or it has contributory property  
Other_Lowercase.\n */\ninternal fun Char.isLowerCaseImpl(): Boolean {\n    return getLetterType() == 1 ||  
code.isOtherLowercase()\n}\n\n/* Returns `true` if this character is an upper case letter, or it has contributory  
property Other_Uppercase.\n */\ninternal fun Char.isUpperCaseImpl(): Boolean {\n    return getLetterType() == 2 ||  
code.isOtherUppercase()\n}\n}\n\n/* Returns
```

```
\n * - `1` if the character is a lower case letter,\n * - `2` if the character is an upper case letter,\n * - `3`  
if the character is a letter but not a lower or upper case letter,\n * - `0` otherwise.\n */\nprivate fun
```

```
Char.getLetterType(): Int {\n    val ch = this.code\n    val index = binarySearchRange(Letter.decodedRangeStart,  
ch)\n    val rangeStart = Letter.decodedRangeStart[index]\n    val rangeEnd = rangeStart +  
Letter.decodedRangeLength[index] - 1\n    val code = Letter.decodedRangeCategory[index]\n    if (ch > rangeEnd)  
{\n    return 0\n    }\n    val lastTwoBits = code and 0x3\n    if (lastTwoBits == 0) { // gap pattern\n    var  
shift = 2\n    var threshold = rangeStart\n    for (i in 0..1) {\n    threshold += (code shr shift) and 0x7f\n    if (threshold > ch) {\n    return 3\n    }\n    shift += 7\n    threshold += (code shr shift) and  
0x7f\n
```

```
    if (threshold > ch) {\n    return 0\n    }\n    shift += 7\n    }\n    return 3\n    }\n    if (code  
<= 0x7) {\n    return lastTwoBits\n    }\n    val distance = (ch - rangeStart)\n    val shift = if (code <= 0x1F)  
distance % 2 else distance\n    return (code shr (2 * shift)) and 0x3\n}\n}\n\n\"/>\n\n/* Copyright 2010-2021 JetBrains  
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0  
license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\n// NOTE: THIS FILE IS  
AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
```

```
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nprivate object OtherLowercase {\n    internal  
val otherLowerStart = intArrayOf(\n    0x00aa, 0x00ba, 0x02b0, 0x02c0, 0x02e0, 0x0345, 0x037a, 0x1d2c,  
0x1d78, 0x1d9b, 0x2071, 0x207f, 0x2090, 0x2170, 0x24d0, 0x2c7c, 0xa69c, 0xa770, 0xa7f8, 0xab5c, \n    )\n    internal
```

```
val otherLowerLength = intArrayOf(\n    1, 1, 9, 2, 5, 1, 1, 63, 1, 37, 1, 1, 13, 16, 26, 2, 2, 1, 2, 4, \n    )\n}\n\ninternal fun Int.isOtherLowercase(): Boolean {\n    val index =  
binarySearchRange(OtherLowercase.otherLowerStart, this)\n    return index >= 0 && this <
```

```
OtherLowercase.otherLowerStart[index] + OtherLowercase.otherLowerLength[index]\n}\n}\n\n\"/>\n\n/* Copyright  
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```



by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*\n\npackage kotlin.text\n\n/\n//  
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:  
<https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib>\n\n/\n\ninternal fun Int.isOtherUppercase(): Boolean  
{\n return this in 0x2160..0x216f\n || this in 0x24b6..0x24cf\n }\n},"/\*\n \* Copyright 2010-2021 JetBrains  
s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code  
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*\n\npackage  
kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:  
<https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib>\n\n/\n\nimport kotlin.js.\*\n\n/\*\*\n \* Returns a  
character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char  
sequence.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*\n\npublic actual fun  
CharSequence.elementAt(index: Int): Char {\n return elementAtOrElse(index) { throw  
IndexOutOfBoundsException("index: \$index, length: \$length}") }\n}\n\n"/\*\n \* Copyright 2010-2021 JetBrains  
s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0  
license that can be found in the license/LICENSE.txt file.\n \*\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS  
AUTO-GENERATED by the GenerateUnicodeData.kt\n//  
See: <https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib>\n\n/\n\n4 ranges totally\n\ninternal fun  
Char.titlecaseCharImpl(): Char {\n val code = this.code\n // Letters repeating <Lu, Lt, Ll> sequence and code of  
the Lt is a multiple of 3, e.g. <u01c4, u01c5, u01c6>\n if (code in 0x01c4..0x01cc || code in 0x01f1..0x01f3) {\n return (3 \* ((code + 1) / 3)).toChar()\n }\n // Lower case letters whose title case mapping equivalent is equal  
to the original letter\n if (code in 0x10d0..0x10fa || code in 0x10fd..0x10ff) {\n return this\n }\n return  
uppercaseChar()\n},"/\*\n \* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language  
contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the  
license/LICENSE.txt file.\n \*\n\npackage kotlin.collections\n\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED  
by the GenerateStandardLib.kt\n// See: <https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib>\n\n/\n\nimport  
kotlin.js.\*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/\*\*\n \* Returns an element at the given  
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample  
samples.collections.Collections.Elements.elementAt\n \*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n\npublic actual fun UIntArray.elementAt(index: Int):  
UInt {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is  
out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n\npublic actual fun ULongArray.elementAt(index: Int):  
ULong {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n}\n\n/\*\*\n \* Returns an element at the  
given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n\npublic actual fun UByteArray.elementAt(index: Int):  
UByte {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is  
out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n \*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n\npublic actual fun UShortArray.elementAt(index: Int):  
UShort {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n}\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n\npublic actual fun UIntArray.asList(): List<UInt> {\n return object : AbstractList<UInt>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UInt): Boolean =  
this@asList.contains(element)\n override fun get(index: Int): UInt {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n } override fun

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indexOf(element: UInt): Int {\n      @Suppress("USELESS_CAST")\n      if ((element as Any?) !is UInt)
return -1\n      return this@asList.indexOf(element)\n  }\n  override fun lastIndexOf(element: UInt): Int
{\n      @Suppress("USELESS_CAST")\n      if ((element as Any?) !is UInt) return -1\n      return
this@asList.lastIndexOf(element)\n  }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n * \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public actual fun ULongArray.asList():
List<ULong> {\n  return object : AbstractList<ULong>(), RandomAccess {\n      override val size: Int get() =
this@asList.size\n      override fun isEmpty(): Boolean = this@asList.isEmpty()\n      override fun
contains(element: ULong): Boolean = this@asList.contains(element)\n      override fun get(index: Int): ULong {\n
          AbstractList.checkElementIndex(index, size)\n          return this@asList[index]\n      }\n      override fun
indexOf(element: ULong): Int {\n          @Suppress("USELESS_CAST")\n          if ((element as Any?) !is
ULong) return -1\n          return this@asList.indexOf(element)\n      }\n      override fun lastIndexOf(element:
ULong): Int {\n          @Suppress("USELESS_CAST")\n          if ((element as Any?) !is ULong) return -1\n
          return this@asList.lastIndexOf(element)\n      }\n  }\n}\n\n/**\n * Returns a [List] that wraps the original
array.\n * \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public
actual fun UByteArray.asList(): List<UByte> {\n  return object : AbstractList<UByte>(), RandomAccess {\n
      override val size: Int get() = this@asList.size\n      override fun isEmpty(): Boolean = this@asList.isEmpty()\n
      override fun contains(element: UByte): Boolean = this@asList.contains(element)\n      override fun get(index: Int):
UByte {\n          AbstractList.checkElementIndex(index, size)\n          return this@asList[index]\n      }\n      override fun
indexOf(element: UByte): Int {\n          @Suppress("USELESS_CAST")\n          if ((element as
Any?) !is UByte) return -1\n          return this@asList.indexOf(element)\n      }\n      override fun
lastIndexOf(element: UByte): Int {\n          @Suppress("USELESS_CAST")\n          if ((element as Any?) !is
UByte) return -1\n          return this@asList.lastIndexOf(element)\n      }\n  }\n}\n\n/**\n * Returns a [List] that
wraps the original array.\n * \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public
actual fun UShortArray.asList(): List<UShort> {\n  return object : AbstractList<UShort>(), RandomAccess {\n
      override val size: Int get() = this@asList.size\n      override fun isEmpty(): Boolean = this@asList.isEmpty()\n
      override fun contains(element: UShort): Boolean = this@asList.contains(element)\n      override fun get(index:
Int): UShort {\n          AbstractList.checkElementIndex(index, size)\n          return this@asList[index]\n      }\n      override fun
indexOf(element: UShort): Int {\n          @Suppress("USELESS_CAST")\n          if ((element as
Any?) !is UShort) return -1\n          return this@asList.indexOf(element)\n      }\n      override fun
lastIndexOf(element: UShort): Int {\n          @Suppress("USELESS_CAST")\n          if ((element as Any?) !is
UShort) return -1\n          return this@asList.lastIndexOf(element)\n      }\n  }\n}\n\n"/**\n * Copyright 2010-
2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n * \n @\n package kotlin.text\n\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n 9 ranges totally\n */\n * Returns `true` if this
character is a whitespace.\n * \n internal fun Char.isWhitespaceImpl(): Boolean {\n  val ch = this.code\n  return ch
in 0x0009..0x000d\n      || ch in 0x001c..0x0020\n      || ch == 0x00a0\n      || ch > 0x1000 && (\n
ch == 0x1680\n      || ch in 0x2000..0x200a\n      || ch == 0x2028\n      || ch == 0x2029\n
|| ch == 0x202f\n      || ch == 0x205f\n      || ch == 0x3000\n      )\n}\n\n"/**\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source
code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n @\n package
kotlin\n\n public actual fun interface Comparator<T> {\n  @JsName("compare")\n  public actual fun
compare(a: T, b: T): Int\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n @\n package kotlin.js\n\n import
kotlin.annotation.AnnotationTarget.*\n\n @Target(FUNCTION)\n @Deprecated("Use inline extension function with
body using dynamic")\n public annotation class nativeGetter\n\n @Target(FUNCTION)\n @Deprecated("Use inline

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extension function with body using dynamic")\npublic annotation class nativeSetter\n\n@Target(FUNCTION)\n@Deprecated("Use inline extension function with body using dynamic")\npublic annotation class nativeInvoke\n\n@Target(CLASS, FUNCTION, PROPERTY)\ninternal annotation class library(public val name: String = "")\n\n@Target(CLASS)\ninternal annotation class marker\n\n\*\*\n \* Gives a declaration (a function, a property or a class) specific name in JavaScript.\n \* This may be useful in the following cases:\n \* \* There are two functions for which the compiler gives same name in JavaScript, you can mark one with `@JsName(...)` to prevent the compiler from reporting error.\n \* \* You are writing a JavaScript library in Kotlin. The compiler produces mangled names for functions with parameters, which is unnatural for usual JavaScript developer.\n \* You can put `@JsName(...)` on functions you want to be available from JavaScript.\n \* \* For some reason you want to rename declaration, e.g. there's common term in JavaScript for a concept provided by the declaration, which is uncommon in Kotlin.\n \* Example:\n \* ``` kotlin\n \* class Person(val name: String) {\n \* fun hello() {\n \* println("Hello \$name!")\n \* }\n \* @JsName("helloWithGreeting")\n \* fun hello(greeting: String) {\n \* println("\$greeting \$name!")\n \* }\n \* }\n \* ```\n \* @property name the name which compiler uses both for declaration itself and for all references to the declaration.\n \* It's required to denote a valid JavaScript identifier.\n \*\n \*/\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY\_GETTER, PROPERTY\_SETTER)\npublic actual annotation class JsName(actual val name: String)\n\n\*\*\n \* Denotes an `external` declaration that must be imported from native JavaScript library.\n \*\n \* The compiler produces the code relevant for the target module system, for example, in case of CommonJS,\n \* it will import the declaration via the `require(...)` function.\n \*\n \* The annotation can be used on top-level external declarations (classes, properties, functions) and files.\n \* In case of file (which can't be `external`) the following rule applies:\n \*\n \* all the declarations in the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.\n \*\n \* Example:\n \* ``` kotlin\n \* @JsModule("jquery")\n \* external abstract class JQuery() {\n \* // some declarations here\n \* }\n \*\n \* @JsModule("jquery")\n \* external fun JQuery(element: Element): JQuery\n \* ```\n \*\n \* @property import name of a module to import declaration from.\n \* It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system.\n \*\n \* @see JsNonModule\n \*\n \*/\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsModule(val import: String)\n\n\*\*\n \* Denotes an `external` declaration that can be used without module system.\n \*\n \* By default, an `external` declaration is available regardless your target module system.\n \*\n \* However, by applying [JsModule] annotation you can make a declaration unavailable to plain module system.\n \*\n \* Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available as an npm package.\n \*\n \* To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.\n \*\n \* For example:\n \* ``` kotlin\n \* @JsModule("jquery")\n \* @JsNonModule\n \* @JsName("\$")\n \* external abstract class JQuery() {\n \* // some declarations here\n \* }\n \*\n \* @JsModule("jquery")\n \* @JsNonModule\n \* @JsName("\$")\n \* external fun JQuery(element: Element): JQuery\n \* ```\n \*\n \* @see JsModule\n \*\n \*/\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsNonModule\n\n\*\*\n \* Adds prefix to `external` declarations in a source file.\n \*\n \* JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.\n \*\n \* The compiler turns references to `external` declarations either to plain unprefix names (in case of plain modules)\n \* or to plain imports.\n \*\n \* However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.\n \*\n \* You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)` annotation.\n \*\n \* Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.\n \*\n \* Example:\n \* ```\n \* @file:JsQualifier("my.jsPackageName")\n \* ```

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package some.kotlinPackage\n * \n * external fun foo(x: Int)\n * \n * external fun bar(): String\n * ```\n * \n *
@property value the qualifier to add to the declarations in the generated code.\n * It must be a sequence of
valid JavaScript identifiers separated by the `.` character.\n * Examples of valid qualifiers are: `foo`,
`bar.Baz`, `_$0.f`.\n * \n * @see JsModule\n
*\n @Retention(AnnotationRetention.BINARY)\n @Target(AnnotationTarget.FILE)\n public
annotation class JsQualifier(val value: String)\n /**\n * Exports top-level declaration on JS platform.\n * \n *
Compiled module exposes declarations that are marked with this annotation without name mangling.\n * \n * This
annotation can be applied to either files or top-level declarations.\n * \n * It is currently prohibited to export the
following kinds of declarations:\n * \n * * `expect` declarations\n * * inline functions with reified type
parameters\n * * suspend functions\n * * secondary constructors without `@JsName`\n * * extension
properties\n * * enum classes\n * * annotation classes\n * \n * Signatures of exported declarations must only
contain "exportable" types:\n * \n * * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`,
`Double`\n * * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * *
`Array<exportable-type>`\n * * Function types with exportable
parameters and return types\n * * `external` or `@JsExport` classes and interfaces\n * * Nullable counterparts of
types above\n * * Unit return type. Must not be nullable\n * \n * This annotation is experimental, meaning that
restrictions mentioned above are subject to change.\n
*\n @ExperimentalJsExport\n @Retention(AnnotationRetention.BINARY)\n @Target(CLASS, PROPERTY,
FUNCTION, FILE)\n @SinceKotlin("1.3")\n public actual annotation class JsExport\n /**\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n package kotlin.jvm\n / these are
used in common generated code in stdlib\n / TODO: find how to deprecate these
ones\n /
*\n @Target(AnnotationTarget.FIELD)\n @Retention(AnnotationRetention.SOURCE)\n public actual
annotation class Volatile\n /
*\n @Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER,
AnnotationTarget.PROPERTY_SETTER)\n @Retention(AnnotationRetention.SOURCE)\n public
actual annotation class Synchronized\n /**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n package kotlin.collections\n /**\n * Provides a skeletal implementation of the
[MutableCollection] interface.\n * \n * @param E the type of elements contained in the collection. The collection is
invariant in its element type.\n */\n public actual abstract class AbstractMutableCollection<E> protected actual
constructor(): AbstractCollection<E>(), MutableCollection<E> {\n /
*\n actual abstract override fun add(element: E):
Boolean\n /
*\n actual override fun remove(element: E): Boolean {\n /
*\n checkIsMutable()\n /
*\n val iterator =
iterator()\n /
*\n while (iterator.hasNext()) {\n /
*\n if (iterator.next() == element) {\n /
*\n iterator.remove()\n /
*\n return true\n /
*\n }\n /
*\n return false\n /
*\n }\n /
*\n actual override fun addAll(elements:
Collection<E>): Boolean {\n /
*\n checkIsMutable()\n /
*\n var modified = false\n /
*\n for (element in elements) {\n /
*\n if (add(element)) modified = true\n /
*\n }\n /
*\n return modified\n /
*\n }\n /
*\n actual override fun
removeAll(elements: Collection<E>): Boolean {\n /
*\n checkIsMutable()\n /
*\n return (this as
MutableIterable<E>).removeAll { it in elements }\n /
*\n }\n /
*\n actual override fun retainAll(elements:
Collection<E>): Boolean {\n /
*\n checkIsMutable()\n /
*\n return (this as MutableIterable<E>).removeAll { it !in
elements }\n /
*\n }\n /
*\n actual override fun clear(): Unit {\n /
*\n checkIsMutable()\n /
*\n val iterator = this.iterator()\n /
*\n while (iterator.hasNext()) {\n /
*\n iterator.next()\n /
*\n iterator.remove()\n /
*\n }\n /
*\n }\n /
*\n @Deprecated("Provided so that subclasses inherit this function", level
= DeprecationLevel.HIDDEN)\n @JsName("toJSON")\n protected fun toJSON(): Any = this.toArray()\n /
*\n /**\n * This method is called every time when a mutating method is called on this mutable collection.\n *
*\n Mutable collections that are built (frozen) must throw `UnsupportedOperationException`.\n */\n internal open
fun checkIsMutable(): Unit { }\n /
*\n /**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n /**\n * Based on GWT AbstractList\n * Copyright 2007 Google

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Inc.\n*\n\npackage kotlin.collections\n*\n * Provides a skeletal implementation of the [MutableList]
interface.\n *\n * @param E the type of elements contained in the list. The list is invariant in its element type.\n
*\npublic actual abstract class AbstractMutableList<E> protected actual constructor() :
AbstractMutableCollection<E>(),
MutableList<E> {\n    protected var modCount: Int = 0\n\n    abstract override fun add(index: Int, element: E):
Unit\n    abstract override fun removeAt(index: Int): E\n    abstract override fun set(index: Int, element: E): E\n\n
/**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the list is always
modified as the result of this operation.\n *\n    actual override fun add(element: E): Boolean {\n
checkIsMutable()\n    add(size, element)\n    return true\n    }\n\n    actual override fun addAll(index: Int,
elements: Collection<E>): Boolean {\n    AbstractList.checkPositionIndex(index, size)\n\n
checkIsMutable()\n    var _index = index\n    var changed = false\n    for (e in elements) {\n
add(_index++, e)\n    changed = true\n    }\n    return changed\n    }\n\n    actual override fun clear() {\n
checkIsMutable()\n    removeRange(0, size)\n    }\n\n    actual override fun removeAll(elements: Collection<E>): Boolean {\n
checkIsMutable()\n    return
removeAll { it in elements }\n    }\n\n    actual override fun retainAll(elements: Collection<E>): Boolean {\n
checkIsMutable()\n    return removeAll { it !in elements }\n    }\n\n\n    actual override fun iterator():
MutableIterator<E> = IteratorImpl()\n\n    actual override fun contains(element: E): Boolean = indexOf(element) >=
0\n\n    actual override fun indexOf(element: E): Int {\n    for (index in 0..lastIndex) {\n    if (get(index) ==
element) {\n    return index\n    }\n    }\n    return -1\n    }\n\n    actual override fun
lastIndexOf(element: E): Int {\n    for (index in lastIndex downTo 0) {\n    if (get(index) == element) {\n
return index\n    }\n    }\n    return -1\n    }\n\n    actual override fun listIterator():
MutableListIterator<E> = listIterator(0)\n\n    actual override
fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index)\n\n\n    actual override fun
subList(fromIndex: Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex)\n\n    /**\n * Removes
the range of elements from this list starting from [fromIndex] and ending with but not including [toIndex].\n *\n
protected open fun removeRange(fromIndex: Int, toIndex: Int) {\n    val iterator = listIterator(fromIndex)\n
repeat(toIndex - fromIndex) {\n    iterator.next()\n    iterator.remove()\n    }\n    }\n\n    /**\n *
Compares this list with another list instance with the ordered structural equality.\n *\n * @return true, if [other]
instance is a [List] of the same size, which contains the same elements in the same order.\n *\n    override fun
equals(other: Any?): Boolean {\n    if (other === this) return true\n    if (other !is List<*>) return false\n\n
return AbstractList.orderedEquals(this,
other)\n    }\n\n    /**\n * Returns the hash code value for this list.\n *\n    override fun hashCode(): Int =
AbstractList.orderedHashCode(this)\n\n\n    private open inner class IteratorImpl : MutableIterator<E> {\n    /**
the index of the item that will be returned on the next call to [next]() *\n    protected var index = 0\n    /**
the index of the item that was returned on the previous call to [next]() *\n    * or [ListIterator.previous]() (for
`ListIterator`),\n    * -1 if no such item exists\n    *\n    protected var last = -1\n\n    override fun
hasNext(): Boolean = index < size\n\n    override fun next(): E {\n    if (!hasNext()) throw
NoSuchElementException()\n    last = index++\n    return get(last)\n    }\n\n    override fun remove()
{\n    check(last != -1) { "Call next() or previous() before removing element from the iterator." }\n\n
removeAt(last)\n
index = last\n    last = -1\n    }\n    }\n\n    /**\n * Implementation of `MutableListIterator` for abstract
lists.\n *\n    private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {\n\n
init {\n    AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)\n    this.index = index\n
}\n\n    override fun hasPrevious(): Boolean = index > 0\n\n    override fun nextIndex(): Int = index\n\n
override fun previous(): E {\n    if (!hasPrevious()) throw NoSuchElementException()\n\n    last = --
index\n    return get(last)\n    }\n\n    override fun previousIndex(): Int = index - 1\n\n    override fun
add(element: E) {\n    add(index, element)\n    index++\n    last = -1\n    }\n\n    override fun
set(element: E) {\n    check(last != -1) { "Call next() or previous() before updating element value with the

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iterator.\n    }\n        set(last, element)\n    }\n }\n\n private class SubList<E>(private val list:
AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(), RandomAccess {\n
    private var _size: Int = 0\n        init {\n            AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\n
            this._size = toIndex - fromIndex\n        }\n        override fun add(index: Int, element: E) {\n
AbstractList.checkPositionIndex(index, _size)\n            list.add(fromIndex + index, element)\n            _size++\n
        }\n        override fun get(index: Int): E {\n            AbstractList.checkElementIndex(index, _size)\n            return
list[fromIndex + index]\n        }\n        override fun removeAt(index: Int): E {\n
AbstractList.checkElementIndex(index, _size)\n            val result = list.removeAt(fromIndex + index)\n
            _size--\n            return result\n        }\n        override fun set(index: Int, element: E): E {\n
            AbstractList.checkElementIndex(index, _size)\n            return list.set(fromIndex + index, element)\n
        }\n        override val size: Int get() = _size\n        internal
override fun checkIsMutable(): Unit = list.checkIsMutable()\n    }\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT AbstractMap\n * Copyright
2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the
[MutableMap] interface.\n * The implementor is required to implement [entries] property, which should return
mutable set of map entries, and [put] function.\n * @param K the type of map keys. The map is invariant in its
key type.\n * @param V the type of map values. The map is invariant in its value type.\n
*/\n\npublic actual abstract class AbstractMutableMap<K, V> protected actual constructor() : AbstractMap<K, V>(),
MutableMap<K, V> {\n    /**\n     * A mutable [Map.Entry] shared by several [Map] implementations.\n     */\n
    internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {\n
        constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)\n        private var _value = value\n
        override val value: V get() = _value\n        override fun setValue(newValue: V): V {\n            // Should check if
the map containing this entry is mutable.\n            // However, to not increase entry memory footprint it might be
worthwhile not to check it here and\n            // force subclasses that implement `build()` (freezing) operation to
implement their own `MutableEntry`.\n            this@AbstractMutableMap.checkIsMutable()\n            val oldValue
= this._value\n            this._value = newValue\n            return
            oldValue\n        }\n        override fun hashCode(): Int = entryHashCode(this)\n        override fun toString(): String
= entryToString(this)\n        override fun equals(other: Any?): Boolean = entryEquals(this, other)\n    }\n    //
intermediate abstract class to workaround KT-43321\n    internal abstract class AbstractEntrySet<E : Map.Entry<K,
V>, K, V> : AbstractMutableSet<E>() {\n        final override fun contains(element: E): Boolean =
containsEntry(element)\n        abstract fun containsEntry(element: Map.Entry<K, V>): Boolean\n        final override
fun remove(element: E): Boolean = removeEntry(element)\n        abstract fun removeEntry(element: Map.Entry<K,
V>): Boolean\n    }\n    actual override fun clear() {\n        entries.clear()\n    }\n    private var _keys:
MutableSet<K>? = null\n    actual override val keys: MutableSet<K>\n        get() {\n            if (_keys == null) {\n
                _keys = object : AbstractMutableSet<K>() {\n
                    override fun add(element: K): Boolean = throw UnsupportedOperationException("Add is not supported on
keys")\n                    override fun clear() {\n                        this@AbstractMutableMap.clear()\n                    }\n
                    override operator fun contains(element: K): Boolean = containsKey(element)\n                    override
operator fun iterator(): MutableIterator<K> {\n                        val entryIterator = entries.iterator()\n
                        return object : MutableIterator<K> {\n                            override fun hasNext(): Boolean = entryIterator.hasNext()\n
                            override fun next(): K = entryIterator.next().key\n                            override fun remove() =
entryIterator.remove()\n                        }\n                    }\n                    override fun remove(element: K): Boolean
{\n                        checkIsMutable()\n                        if (containsKey(element)) {\n
                            this@AbstractMutableMap.remove(element)\n                            return true\n                        }\n
                        return false\n                    }\n                    override val size: Int get() = this@AbstractMutableMap.size\n
                    override fun checkIsMutable(): Unit = this@AbstractMutableMap.checkIsMutable()\n                }\n
            }\n            return _keys!!\n        }\n    }\n    actual abstract override fun put(key: K, value: V): V?\n    actual override

```

```

fun putAll(from: Map<out K, V>) {
    checkIsMutable()
    for ((key, value) in from) {
        put(key, value)
    }
}
private var _values: MutableCollection<V>? = null
actual override val values: MutableCollection<V>
    get() {
        if (_values == null) {
            _values = object : AbstractMutableCollection<V>() {
                override fun add(element: V): Boolean = throw
                UnsupportedOperationException("Add
                is not supported on values")
                override fun clear() = this@AbstractMutableMap.clear()
                override operator fun contains(element: V): Boolean = containsValue(element)
                override operator fun iterator(): MutableIterator<V> {
                    val entryIterator = entries.iterator()
                    return object : MutableIterator<V> {
                        override fun hasNext(): Boolean = entryIterator.hasNext()
                        override fun next(): V = entryIterator.next().value
                        override fun remove() =
                            entryIterator.remove()
                    }
                }
                override val size: Int
                    get() = this@AbstractMutableMap.size
                override fun checkIsMutable(): Unit =
                    this@AbstractMutableMap.checkIsMutable()
            }
        }
        return _values!!
    }
actual override
fun remove(key: K): V? {
    checkIsMutable()
    val iter = entries.iterator()
    while (iter.hasNext()) {
        val entry = iter.next()
        val k = entry.key
        if (key == k) {
            val value = entry.value
            iter.remove()
            return value
        }
    }
    return null
}
/** This method
is called every time when a mutating method is called on this mutable map.
* Mutable maps that are built
(frozen) must throw `UnsupportedOperationException`.
*/
internal open fun checkIsMutable(): Unit
{ }
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this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
*/
package kotlin.collections
/** Provides a skeletal implementation of the [MutableSet] interface.
*/
@param E the type of elements contained
in the set. The set is invariant in its element type.
*/
public actual abstract class AbstractMutableSet<E>
protected actual constructor(): AbstractMutableCollection<E>(), MutableSet<E>
/** Compares this
set with another set instance with the unordered structural equality.
* @return `true`, if [other] instance is
a [Set] of the same size, all elements of which are contained in this set.
*/
override fun equals(other: Any?): Boolean {
    if (other === this) return true
    if (other !is Set<*>) return false
    return
        AbstractSet.setEquals(this, other)
}
/** Returns the hash code value for this set.
*/
override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)
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can be found in the license/LICENSE.txt file.
*/
package
kotlin.collections
/** Provides a [MutableList] implementation, which uses a resizable array as its backing
storage.
*/
* This implementation doesn't provide a way to manage capacity, as backing JS array is resizable
itself.
* There is no speed advantage to pre-allocating array sizes in JavaScript, so this implementation does not
include any of the capacity and "growth increment" concepts.
*/
public actual open class ArrayList<E>
internal constructor(private var array: Array<Any?>): AbstractMutableList<E>(), MutableList<E>, RandomAccess
{
    private var isReadOnly: Boolean = false
}
/** Creates an empty [ArrayList].
*/
public actual
constructor(): this(emptyArray())
/** Creates an empty [ArrayList].
*/
* @param initialCapacity
initial capacity (ignored)
*/
public actual constructor(initialCapacity: Int): this(emptyArray())
/** Creates an [ArrayList] filled from the [elements] collection.
*/
*/
public actual constructor(elements: Collection<E>): this(elements.toArray<Any?>())
}
@PublishedApi
internal fun build(): List<E> {
    checkIsMutable()
    isReadOnly = true
    return
        this
}
/** Does nothing in this ArrayList implementation.
*/
public actual fun trimToSize()
/** Does nothing in this ArrayList implementation.
*/
public actual fun ensureCapacity(minCapacity: Int)
actual override val size: Int
    get() = array.size
@Suppress("UNCHECKED_CAST")
actual override fun
get(index: Int): E = array[rangeCheck(index)] as E
actual override fun
set(index: Int, element: E): E {
    checkIsMutable()
    rangeCheck(index)
    @Suppress("UNCHECKED_CAST")
    return
}

```

```

array[index].apply { array[index] = element } as E\n    }\n\n    actual override fun add(element: E): Boolean {\n
checkIsMutable()\n    array.asDynamic().push(element)\n    modCount++\n
    return true\n    }\n\n    actual override fun add(index: Int, element: E): Unit {\n    checkIsMutable()\n
array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n    modCount++\n    }\n\n    actual override
fun addAll(elements: Collection<E>): Boolean {\n    checkIsMutable()\n    if (elements.isEmpty()) return
false\n\n    array += elements.toArray<Any?>()\n    modCount++\n    return true\n    }\n\n    actual
override fun addAll(index: Int, elements: Collection<E>): Boolean {\n    checkIsMutable()\n
insertionRangeCheck(index)\n\n    if (index == size) return addAll(elements)\n    if (elements.isEmpty()) return
false\n    when (index) {\n        size -> return addAll(elements)\n        0 -> array =
elements.toArray<Any?>() + array\n        else -> array = array.copyOfRange(0,
index).asDynamic().concat(elements.toArray<Any?>(), array.copyOfRange(index, size))\n    }\n\n
modCount++\n
    return true\n    }\n\n    actual override fun removeAt(index: Int): E {\n    checkIsMutable()\n
rangeCheck(index)\n    modCount++\n    return if (index == lastIndex)\n        array.asDynamic().pop()\n
    else\n        array.asDynamic().splice(index, 1)[0]\n    }\n\n    actual override fun remove(element: E): Boolean {\n
checkIsMutable()\n    for (index in array.indices) {\n        if (array[index] == element) {\n
array.asDynamic().splice(index, 1)\n            modCount++\n            return true\n        }\n    }\n    return
false\n    }\n\n    override fun removeRange(fromIndex: Int, toIndex: Int) {\n    checkIsMutable()\n
modCount++\n    array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n    }\n\n    actual override fun
clear() {\n    checkIsMutable()\n    array = emptyArray()\n    modCount++\n    }\n\n\n    actual override fun
indexOf(element: E): Int =
array.indexOf(element)\n\n    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\n\n
override fun toString() = arrayToString(array)\n\n    @SuppressWarnings("UNCHECKED_CAST")\n    override fun <T>
toArray(array: Array<T>): Array<T> {\n    if (array.size < size) {\n        return toArray() as Array<T>\n
    }\n    (this.array as Array<T>).copyInto(array)\n\n    if (array.size > size) {\n        array[size] = null as T //
null-terminate\n    }\n\n    return array\n    }\n\n    override fun toArray(): Array<Any?> {\n    return
js("[]").slice.call(array)\n    }\n\n\n    internal override fun checkIsMutable() {\n    if (isReadOnly) throw
UnsupportedOperationException()\n    }\n\n    private fun rangeCheck(index: Int) = index.apply {\n
AbstractList.checkElementIndex(index, size)\n    }\n\n    private fun insertionRangeCheck(index: Int) = index.apply
{\n    AbstractList.checkPositionIndex(index, size)\n    }\n    }"/*\n
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\n    if
(getStableSortingIsSupported()) {\n        array.asDynamic().sort(comparison)\n    } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n    }\n}\n\ninternal fun
<T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n    if (getStableSortingIsSupported())
{\n        val comparison = { a: T, b: T -> comparator.compare(a, b) }\n        array.asDynamic().sort(comparison)\n
    } else {\n        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n    }\n}\n\ninternal fun
<T> sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {\n    if
(fromIndex < toIndex - 1) {\n        mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1,
comparator)\n    }\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n    if
(getStableSortingIsSupported()) {\n        val comparison = { a: T, b: T -> a.compareTo(b) }\n
array.asDynamic().sort(comparison)\n    } else {\n        mergeSort(array.unsafeCast<Array<T>>(), 0,
array.lastIndex, naturalOrder())\n    }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun
getStableSortingIsSupported(): Boolean {\n    _stableSortingIsSupported?.let { return it }\n
_stableSortingIsSupported = false\n    val array = js("[]").unsafeCast<Array<Int>>()\n    // known
implementations may use stable sort for arrays of up to 512 elements\n    // so we create slightly more elements to
test stability\n    for (index in 0 until 600) array.asDynamic().push(index)\n    val comparison = { a: Int, b: Int -> (a

```



```

and 3) - (b and 3) }
array.asDynamic().sort(comparison)
for (index in 1 until array.size) {
    val a = array[index - 1]
    val b = array[index]
    if ((a and 3) == (b and 3) && a >= b) return false
}
_stableSortingIsSupported = true
return true
}

private fun <T>
mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>) {
    val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()
    val result = mergeSort(array, buffer, start, endInclusive, comparator)
    if (result !== array) {
        for (i in start..endInclusive) array[i] = result[i]
    }
}

// Both start and end are inclusive indices.
private fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {
    if (start == end) {
        return array
    }
    val median = (start + end) / 2
    val left = mergeSort(array, buffer, start, median, comparator)
    val right = mergeSort(array, buffer, median + 1, end, comparator)

    val target = if (left === buffer) array else buffer
    // Merge.
    var leftIndex = start
    var rightIndex = median + 1
    for (i in start..end) {
        when {
            leftIndex <= median && rightIndex <= end -> {
                val leftValue = left[leftIndex]
                val rightValue = right[rightIndex]
                if (comparator.compare(leftValue, rightValue) <= 0) {
                    target[i] = leftValue
                    leftIndex++
                } else {
                    target[i] = rightValue
                    rightIndex++
                }
            }
            leftIndex <= median -> {
                target[i] = left[leftIndex]
                leftIndex++
            }
            rightIndex <= end -> {
                target[i] = right[rightIndex]
                rightIndex++
            }
            Unit //
        }
    }
    return target
}

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 */
package
kotlin.collections
@OptIn(ExperimentalUnsignedTypes::class)
@SinceKotlin("1.3")
@kotlin.js.JsName("contentDeepHashCodeImpl")
internal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {
    if (this == null) return 0
    var result = 1
    for (element in this) {
        val elementHash = when {
            element == null -> 0
            element is UByteArray -> element.contentHashCode()
            element is UShortArray -> element.contentHashCode()
            element is UIntArray -> element.contentHashCode()
            element is ULongArray -> element.contentHashCode()
            else -> element.hashCode()
        }
        result = 31 * result + elementHash
    }
    return result
}

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 */
package kotlin.collections
internal interface
EqualityComparator {
    /**
     * Subclasses must override to return a value indicating whether or not two keys or values are equal.
     */
    abstract fun equals(value1: Any?, value2: Any?): Boolean

    /**
     * Subclasses must override to return the hash code of a given key.
     */
    abstract fun getHashCode(value: Any?): Int
}

interface
HashCode : EqualityComparator {
    override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2
    override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0
}

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 */
package
kotlin.collections
import kotlin.collections.MutableMap.MutableEntry
/**
 * Hash table based implementation of the [MutableMap] interface.
 * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.
 * Classes that extend HashMap and implement `build()` (freezing) operation have to make sure mutating methods check `checkIsMutable`.
 */
public actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {
    private inner class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {
        override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on entries")
        override fun clear() {
            this@HashMap.clear()
        }
        override fun containsEntry(element: Map.Entry<K, V>): Boolean = this@HashMap.containsEntry(element)
        override operator fun iterator(): MutableIterator<MutableEntry<K,

```

```

V>> = internalMap.iterator()\n\n    override fun removeEntry(element: Map.Entry<K, V>): Boolean {\n        if
        (contains(element)) {\n            this@HashMap.remove(element.key)\n            return true\n        }\n        return false\n    }\n\n    override val size: Int get() = this@HashMap.size\n}\n\n\n/**\n * Internal
implementation of the map: either string-based or hashCode-based.\n */\n private val internalMap:
InternalMap<K, V>\n\n private val equality: EqualityComparator\n\n internal constructor(internalMap:
InternalMap<K, V>) : super() {\n    this.internalMap = internalMap\n    this.equality = internalMap.equality\n
}\n\n /**\n * Constructs an empty [HashMap] instance.\n */\n actual
constructor()\n\n constructor() : this(InternalHashMap(EqualityComparator.HashCode))\n\n /**\n * Constructs an empty
[HashMap] instance.\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor
the load factor (ignored)\n * @throws IllegalArgumentException if the initial capacity or load factor are
negative\n */\n actual constructor(initialCapacity: Int, loadFactor: Float) : this() {\n    // This implementation
of HashMap has no need of load factors or capacities.\n    require(initialCapacity >= 0) { \"Negative initial
capacity: $initialCapacity\" }\n    require(loadFactor >= 0) { \"Non-positive load factor: $loadFactor\" }\n }\n\n
actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n /**\n * Constructs an instance of
[HashMap] filled with the contents of the specified [original] map.\n */\n actual constructor(original: Map<out
K, V>) : this() {\n    this.putAll(original)\n
}\n\n actual override fun clear() {\n    internalMap.clear()\n//    structureChanged(this)\n }\n\n actual
override fun containsKey(key: K): Boolean = internalMap.containsKey(key)\n\n actual override fun
containsValue(value: V): Boolean = internalMap.any { equality.equals(it.value, value) }\n\n private var _entries:
MutableSet<MutableMap.MutableEntry<K, V>>? = null\n\n actual override val entries:
MutableSet<MutableMap.MutableEntry<K, V>>\n\n get() {\n    if (_entries == null) {\n        _entries =
createEntrySet()\n    }\n    return _entries!!\n }\n\n internal open fun createEntrySet():
MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n actual override operator fun get(key: K): V? =
internalMap.get(key)\n\n actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n actual
override fun remove(key: K): V? = internalMap.remove(key)\n\n actual override val size: Int get() =
internalMap.size\n}\n\n\n/**\n * Constructs the specialized implementation of [HashMap] with [String] keys,
which stores the keys as properties of\n * JS object without hashing them.\n */\n\npublic fun <V> stringMapOf(vararg
pairs: Pair<String, V>): HashMap<String, V> {\n    return HashMap<String,
V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n}\n\n", "/*\n * Copyright 2010-2018
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/**\n * Based on GWT HashSet\n *
Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n\n/**\n * The implementation of the [MutableSet]
interface, backed by a [HashMap] instance.\n */\n\n// Classes that extend HashSet and implement `build()` (freezing)
operation\n// have to make sure mutating methods check `checkIsMutable`.\n\npublic actual open class HashSet<E> :
AbstractMutableSet<E>, MutableSet<E>\n\n {\n\n internal val map: HashMap<E, Any>\n\n /**\n * Constructs a new empty [HashSet].\n */\n actual
constructor()\n\n {\n    map = HashMap<E, Any>()\n }\n\n /**\n * Constructs a new [HashSet] filled with the
elements of the specified collection.\n */\n actual constructor(elements: Collection<E>)\n\n {\n    map =
HashMap<E, Any>(elements.size)\n    addAll(elements)\n }\n\n /**\n * Constructs a new empty
[HashSet].\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor the load
factor (ignored)\n * @throws IllegalArgumentException if the initial capacity or load factor are negative\n
*/\n actual constructor(initialCapacity: Int, loadFactor: Float)\n\n {\n    map = HashMap<E, Any>(initialCapacity,
loadFactor)\n }\n\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n /**\n * Protected
constructor to specify the underlying map. This is used
by\n * LinkedHashSet.\n */\n * @param map underlying map to use.\n */\n internal constructor(map:
HashMap<E, Any>)\n\n {\n    this.map = map\n }\n\n actual override fun add(element: E): Boolean {\n    val
old = map.put(element, this)\n    return old == null\n }\n\n actual override fun clear() {\n    map.clear()\n
}\n\n\n// public override fun clone(): Any {\n//    return HashSet<E>(this)\n// }\n\n\n actual override operator

```

```

fun contains(element: E): Boolean = map.containsKey(element)\n\n  actual override fun isEmpty(): Boolean =
map.isEmpty()\n\n  actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n  actual override
fun remove(element: E): Boolean = map.remove(element) != null\n\n  actual override val size: Int get() =
map.size\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [HashSet] with the specified
[String] elements,\n * which elements the keys as properties of JS object without
hashing them.\n */\n\npublic fun stringSetOf(vararg elements: String): HashSet<String> {\n  return
HashSet(stringMapOf<Any>()).apply { addAll(elements) }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT InternalHashMap\n * Copyright
2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\nimport kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n
* A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any\n * key type.\n *\n
*\n * Implementation notes:\n *\n *\n * A key's hashCode is the index in backingMap which should contain that
key. Since several keys may\n * have the same hash, each value in hashCodeMap is actually an array containing all
entries whose\n * keys share the same hash.\n */\n\ninternal
class InternalHashMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n
private var backingMap: dynamic = createJsMap()\n  override var size: Int = 0\n  private set\n\n  override fun
put(key: K, value: V): V? {\n    val hashCode = equality.getHashCode(key)\n    val chainOrEntry =
getChainOrEntryOrNull(hashCode)\n    if (chainOrEntry == null) {\n      // This is a new chain, put it to the
map.\n      backingMap[hashCode] = SimpleEntry(key, value)\n    } else {\n      if (chainOrEntry !is
Array<*>) {\n        // It is an entry\n        val entry: SimpleEntry<K, V> = chainOrEntry\n        if
(equality.equals(entry.key, key)) {\n          return entry.setValue(value)\n        } else {\n
backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n          size++\n          return null\n
        }\n      } else {\n
        // Chain already exists, perhaps key also exists.\n        val chain: Array<MutableEntry<K, V>> =
chainOrEntry\n        val entry = chain.findEntryInChain(key)\n        if (entry != null) {\n          return
entry.setValue(value)\n        }\n        chain.asDynamic().push(SimpleEntry(key, value))\n      }\n    }\n
size++\n\n// structureChanged(host)\n    return null\n  }\n\n  override fun remove(key: K): V? {\n
val hashCode = equality.getHashCode(key)\n    val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return
null\n    if (chainOrEntry !is Array<*>) {\n      val entry: MutableEntry<K, V> = chainOrEntry\n      if
(equality.equals(entry.key, key)) {\n        jsDeleteProperty(backingMap, hashCode)\n        size--\n
return entry.value\n      } else {\n        return null\n      }\n    } else {\n      val
chain: Array<MutableEntry<K, V>> = chainOrEntry\n      for (index in chain.indices) {\n        val entry =
chain[index]\n        if (equality.equals(key, entry.key)) {\n          if (chain.size == 1) {\n
chain.asDynamic().length = 0\n            // remove the whole array\n
jsDeleteProperty(backingMap, hashCode)\n          } else {\n            // splice out the entry we're
removing\n            chain.asDynamic().splice(index, 1)\n          }\n          size--\n\n//
structureChanged(host)\n          return entry.value\n        }\n      }\n    }\n    return null\n  }\n\n
override fun clear() {\n    backingMap = createJsMap()\n    size = 0\n  }\n\n  override fun contains(key: K):
Boolean = getEntry(key) != null\n\n  override fun get(key: K): V? = getEntry(key)?.value\n\n  private fun
getEntry(key: K): MutableEntry<K, V>? {\n    val chainOrEntry =
getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n    if (chainOrEntry !is Array<*>) {\n
val entry: MutableEntry<K, V> = chainOrEntry\n    if (equality.equals(entry.key, key)) {\n      return
entry\n    } else {\n      return null\n    }\n    } else {\n      val chain: Array<MutableEntry<K,
V>> = chainOrEntry\n      return chain.findEntryInChain(key)\n    }\n  }\n\n  private fun
Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n    firstOrNull { entry ->
equality.equals(entry.key, key) }\n\n  override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n\n
return object : MutableIterator<MutableEntry<K, V>> {\n    var state = -1 // -1 not ready, 0 - ready, 1 -

```

```

done\n\n        val keys: Array<String> = js("Object").keys(backingMap)\n        var keyIndex = -1\n\n        var chainOrEntry: dynamic = null\n        var isChain = false\n        var itemIndex = -1\n        var lastEntry: MutableEntry<K, V>? = null\n\n        private fun computeNext(): Int {\n            if (chainOrEntry != null && isChain) {\n                val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n                if (++itemIndex < chainSize)\n                    return 0\n            }\n            if (++keyIndex < keys.size) {\n                chainOrEntry = backingMap[keys[keyIndex]]\n                isChain = chainOrEntry is Array<*>\n                itemIndex = 0\n                return 0\n            } else {\n                chainOrEntry = null\n                return 1\n            }\n        }\n\n        override fun hasNext(): Boolean {\n            if (state == -1)\n                state = computeNext()\n            return state == 0\n        }\n\n        override fun next(): MutableEntry<K, V> {\n            if (!hasNext()) throw NoSuchElementException()\n            val lastEntry = if (isChain) {\n                chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n            } else {\n                chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n            }\n            this.lastEntry = lastEntry\n            state = -1\n            return lastEntry\n        }\n\n        override fun remove() {\n            checkNotNull(lastEntry)\n            this@InternalHashMap.remove(lastEntry!!.key)\n            lastEntry = null\n            // the chain being iterated just got modified by InternalHashMap.remove\n            itemIndex--\n        }\n\n        private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n            val chainOrEntry = backingMap[hashCode]\n            return if (chainOrEntry === undefined) null\n                else chainOrEntry\n        }\n\n        /*\n        * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n        * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n        */\n\n        package kotlin.collections\n\n        /**\n        * The common interface of [InternalStringMap] and [InternalHashMap].\n        */\n        internal interface InternalMap<K, V> : MutableIterable<MutableMap.MutableEntry<K, V>> {\n            val equality: EqualityComparator\n            val size: Int\n            operator fun contains(key: K): Boolean\n            operator fun get(key: K): V?\n            fun put(key: K, value: V): V?\n            fun remove(key: K): V?\n            fun clear(): Unit\n            fun createJsMap(): dynamic {\n                val result = js("Object.create(null)")\n                // force to switch object representation to dictionary mode\n                result["foo"] = 1\n                jsDeleteProperty(result, "foo")\n                return result\n            }\n        }\n\n        /*\n        * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n        * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n        */\n\n        based on GWT InternalStringMap\n        Copyright 2008 Google Inc.\n\n        package kotlin.collections\n        import kotlin.collections.MutableMap.MutableEntry\n\n        /**\n        * A simple wrapper around JavaScript Map for key type is string.\n        * Though this map is instantiated only with K=String, the K type is not fixed to String statically,\n        * because we want to have it erased to Any? in order not to generate type-safe override bridges for\n        * [get], [contains], [remove] etc, if they ever are generated.\n        */\n        internal class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n            private var backingMap: dynamic = createJsMap()\n            override var size: Int = 0\n            private set\n\n            /**\n            * A mod count to track 'value' replacements in map to ensure that the 'value' that we have in the\n            * iterator entry is guaranteed to be still correct.\n            * This is to optimize for the common scenario where the values are not modified during\n            * iterations where the entries are never stale.\n            */\n            private var valueMod: Int = 0\n\n            override operator fun contains(key: K): Boolean {\n                if (key !is String) return false\n                return backingMap[key] !== undefined\n            }\n\n            override operator fun get(key: K): V? {\n                if (key !is String) return null\n                val value = backingMap[key]\n                return if (value !== undefined) value.unsafeCast<V>() else null\n            }\n\n            override fun put(key: K, value: V): V? {\n                require(key is String)\n                val oldValue = backingMap[key]\n                backingMap[key] = value\n                if (oldValue === undefined) {\n                    size++\n                    structureChanged(host)\n                } else {\n                    valueMod++\n                }\n                return oldValue.unsafeCast<V>()\n            }\n\n            override fun remove(key: K): V? {\n                if (key !is String) return null\n                val value = backingMap[key]\n                if (value !== undefined) {\n                    jsDeleteProperty(backingMap, key)\n                    size--\n                }\n            }\n        }

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structureChanged(host)\n        return value.unsafeCast<V>()\n    } else {\n//        valueMod++\n        return
null\n    }\n}\n\n override fun clear() {\n    backingMap = createJsMap()\n    size = 0\n }\n\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n    return object :
MutableIterator<MutableEntry<K, V>> {\n        private val keys: Array<String> =
js("Object").keys(backingMap)\n        private val iterator = keys.iterator()\n        private var lastKey: String? =
null\n\n        override fun hasNext(): Boolean = iterator.hasNext()\n\n        override fun next():
MutableEntry<K, V> {\n            val key = iterator.next()\n            lastKey = key\n
            @Suppress("UNCHECKED_CAST")\n            return newMapEntry(key as K)\n        }\n\n        override fun remove() {\n            @Suppress("UNCHECKED_CAST")\n            this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n        }\n    }\n\n private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n    override val key: K get() =
key\n    override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n    override fun
setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n    override fun
hashCode(): Int = AbstractMap.entryHashCode(this)\n\n    override fun toString(): String =
AbstractMap.entryToString(this)\n\n    override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this,
other)\n    }\n}\n\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by
the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT
LinkedHashMap\n * Copyright 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap]
interface, which additionally preserves the insertion order\n * of entries during the iteration.\n *\n * The insertion
order is preserved by maintaining a doubly-linked list of all of its entries.\n *\n * The entry we use includes
next/prev pointers for a doubly-linked circular\n * list with a head node. This reduces the special cases we have to
deal with\n * in the list operations.\n *\n * Note that we duplicate the key from the underlying hash map so we
can find\n * the eldest entry. The alternative would have been to modify HashMap so more\n * of the code was
directly usable here,
but this would have added some\n * overhead to HashMap, or to reimplement most of the HashMap code here
with\n * small modifications. Paying a small storage cost only if you use\n * LinkedHashMap and minimizing
code size seemed like a better tradeoff\n */\n private inner class ChainEntry<K, V>(key: K, value: V) :
AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n    internal var next: ChainEntry<K, V>? = null\n
internal var prev: ChainEntry<K, V>? = null\n\n    override fun setValue(newValue: V): V {\n
this@LinkedHashMap.checkIsMutable()\n        return super.setValue(newValue)\n    }\n}\n\n private inner
class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n    private inner class EntryIterator :
MutableIterator<MutableEntry<K, V>> {\n        // The last entry that was returned from this iterator.\n
private var last: ChainEntry<K, V>? = null\n        // The next entry to return from
this iterator.\n        private var next: ChainEntry<K, V>? = null\n\n        init {\n            next = head\n//
recordLastKnownStructure(map, this)\n        }\n\n        override fun hasNext(): Boolean {\n            return
next != null\n        }\n\n        override fun next(): MutableEntry<K, V> {\n//
checkStructuralChange(map, this)\n            if (!hasNext()) throw NoSuchElementException()\n\n            val
current = next!!\n            last = current\n            next = current.next.takeIf { it != head }\n            return
current\n        }\n\n        override fun remove() {\n            check(last != null)\n
this@EntrySet.checkIsMutable()\n//            checkStructuralChange(map, this)\n            last!!.remove()\n
map.remove(last!!.key)\n//            recordLastKnownStructure(map, this)\n            last = null\n        }\n
}\n\n        override fun add(element: MutableEntry<K, V>): Boolean = throw
UnsupportedOperationException("Add is not supported on entries")\n    }\n\n    override fun clear() {\n
this@LinkedHashMap.clear()\n    }\n\n    override fun containsEntry(element: Map.Entry<K, V>): Boolean =
this@LinkedHashMap.containsEntry(element)\n\n    override operator fun iterator():

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MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n    override fun removeEntry(element: Map.Entry<K,
V>): Boolean {\n        checkIsMutable()\n        if (contains(element)) {\n
this@LinkedHashMap.remove(element.key)\n            return true\n        }\n        return false\n    }\n\n    override val size: Int get() = this@LinkedHashMap.size\n\n    override fun checkIsMutable(): Unit =
this@LinkedHashMap.checkIsMutable()\n    }\n\n    /*\n     * The head of the insert order chain, which is a doubly-
linked circular\n     * list.\n     * \n     * The
most recently inserted node is at the end of the chain, ie.\n     * chain.prev.\n     * \n     * private var head: ChainEntry<K,
V>? = null\n\n     /*\n     * Add this node to the end of the chain.\n     * \n     * private fun ChainEntry<K,
V>.addToEnd() {\n        // This entry is not in the list.\n        check(next == null && prev == null)\n\n        val _head
= head\n        if (_head == null) {\n            head = this\n            next = this\n            prev = this\n        } else {\n
// Chain is valid.\n            val _tail = checkNotNull(_head.prev)\n            // Update me.\n            prev = _tail\n
next = _head\n            // Update my new siblings: current head and old tail\n            _head.prev = this\n
_tail.next = this\n        }\n    }\n\n    /*\n     * Remove this node from the chain it is a part of.\n     * \n     * private fun
ChainEntry<K, V>.remove() {\n        if (this.next === this) {\n            // if this is single element, remove
head\n            head = null\n        } else {\n            if (head === this) {\n                // if this is first element, move head
to next\n                head = next\n            }\n            next!!.prev = prev\n            prev!!.next = next\n        }\n
next
= null\n        prev = null\n    }\n\n    /*\n     * The hashmap that keeps track of our entries and the chain. Note that
we\n     * duplicate the key here to eliminate changes to HashMap and minimize the\n     * code here, at the expense of
additional space.\n     * \n     * private val map: HashMap<K, ChainEntry<K, V>>\n\n     private var isReadOnly:
Boolean = false\n\n     /*\n     * Constructs an empty [LinkedHashMap] instance.\n     * \n     * actual constructor() :
super() {\n        map = HashMap<K, ChainEntry<K, V>>()\n    }\n\n     internal constructor(backingMap:
HashMap<K, Any>) : super() {\n        @Suppress("UNCHECKED_CAST") // expected to work due to erasure\n
map = backingMap as HashMap<K, ChainEntry<K,
V>>\n    }\n\n     /*\n     * Constructs an empty [LinkedHashMap] instance.\n     * \n     * @param initialCapacity
the initial capacity (ignored)\n     * @param loadFactor the load factor (ignored)\n     * \n     * @throws
IllegalArgumentOutOfRangeException if the initial capacity or load factor are negative\n     * \n     * actual
constructor(initialCapacity: Int, loadFactor: Float) : super(initialCapacity, loadFactor) {\n        map = HashMap<K,
ChainEntry<K, V>>()\n    }\n\n     actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n     /*\n     *
Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n     * \n     * actual
constructor(original: Map<out K, V>) {\n        map = HashMap<K, ChainEntry<K, V>>()\n
this.putAll(original)\n    }\n\n     @PublishedApi\n     internal fun build(): Map<K, V> {\n        checkIsMutable()\n
isReadOnly = true\n        return this\n    }\n\n     actual override fun clear() {\n
checkIsMutable()\n        map.clear()\n        head = null\n    }\n\n    // override fun clone(): Any {\n    //     return
LinkedHashMap(this)\n    // }\n\n     actual override fun containsKey(key: K): Boolean = map.containsKey(key)\n\n     actual
override fun containsValue(value: V): Boolean {\n        var node: ChainEntry<K, V> = head ?: return false\n
do {\n            if (node.value == value) {\n                return true\n            }\n            node = node.next!!\n        }
while (node != head)\n        return false\n    }\n\n     internal override fun createEntrySet():
MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n     actual override operator fun get(key: K): V? =
map.get(key)?.value\n\n     actual override fun put(key: K, value: V): V? {\n        checkIsMutable()\n        val old =
map.get(key)\n        if (old == null) {\n            val newEntry = ChainEntry(key, value)\n            map.put(key,
newEntry)\n            newEntry.addToEnd()\n            return null\n        } else {\n            return old.setValue(value)\n        }\n    }\n\n     actual override fun remove(key:
K): V? {\n        checkIsMutable()\n        val entry = map.remove(key)\n        if (entry != null) {\n
entry.remove()\n            return entry.value\n        }\n        return null\n    }\n\n     actual override val size: Int get() =
map.size\n\n     internal override fun checkIsMutable() {\n        if (isReadOnly) throw
UnsupportedOperationException()\n    }\n\n    /*\n     * Constructs the specialized implementation of
[LinkedHashMap] with [String] keys, which stores the keys as properties of\n     * JS object without hashing them.\n     * \n     * public fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\n        return

```

LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }  
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Apache

2.0 license that can be found in the license/LICENSE.txt file.  
Based on GWT LinkedHashMap  
Copyright 2008 Google Inc.  
package kotlin.collections  
The implementation of the [MutableSet] interface, backed by a [LinkedHashMap] instance.  
This implementation preserves the insertion order of elements during the iteration.  
public actual open class LinkedHashMap<E> : HashSet<E>, MutableSet<E>  
internal constructor(map: LinkedHashMap<E, Any>) : super(map)  
Constructs a new empty [LinkedHashSet].  
actual constructor() : super(LinkedHashMap<E, Any>())  
Constructs a new [LinkedHashSet] filled with the elements of the specified collection.  
actual constructor(elements: Collection<E>) : super(LinkedHashMap<E, Any>()) {  
addAll(elements)  
}  
Constructs a new empty [LinkedHashSet].  
@param initialCapacity the initial capacity (ignored)  
@param loadFactor the load factor (ignored)  
@throws IllegalArgumentException if the initial capacity or load factor are negative  
actual constructor(initialCapacity: Int, loadFactor: Float) :  
super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))  
actual constructor(initialCapacity: Int) :  
this(initialCapacity, 0.0f)  
@PublishedApi  
internal fun build(): Set<E> {  
map as  
LinkedHashMap<E, Any>.build()  
return this  
}  
internal override fun checkIsMutable(): Unit =  
map.checkIsMutable()  
public override fun clone(): Any {  
return LinkedHashMap(this)  
}  
Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements,  
which elements the keys as properties of JS object without hashing them.  
public fun  
linkedStringSetOf(vararg elements: String): LinkedHashMap<String> {  
return  
LinkedHashSet(linkedStringMapOf<Any>()).apply

{ addAll(elements) }  
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Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
package kotlin  
import  
kotlin.contracts.\*  
@DeprecatedSinceKotlin(warningSince = "1.6")  
@Deprecated("Synchronization on any object is not supported in Kotlin/JS",  
ReplaceWith("run(block)"))  
@kotlin.internal.InlineOnly  
@Suppress("UNUSED\_PARAMETER")  
public  
inline fun <R> synchronized(lock: Any, block: () -> R): R {  
contract {  
callsInPlace(block,  
InvocationKind.EXACTLY\_ONCE)  
}  
return block()  
}  
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Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
package kotlin.io  
internal abstract class BaseOutput {  
open fun println() {  
print("\n")  
}  
open fun println(message: Any?) {  
print(message)  
println()  
}  
abstract fun print(message: Any?)  
open fun flush() }  
JsName used to make the declaration available outside of module to test it  
@JsName("NodeJsOutput")  
internal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {  
override fun print(message: Any?) {  
// TODO: Using local variable because of bug in block decomposition lowering in IR backend  
val messageString =  
String(message)  
outputStream.write(messageString)  
}  
JsName used to make the declaration available outside of module to test it  
@JsName("OutputToConsoleLog")  
internal class OutputToConsoleLog : BaseOutput() {  
override fun print(message: Any?) {  
console.log(message)  
}  
override fun println(message: Any?) {  
console.log(message)  
}  
override fun println() {  
console.log("")  
}  
}  
JsName used to make the declaration available outside of module to test it and use at try.kotl.in  
@JsName("BufferedOutput")  
internal open class BufferedOutput : BaseOutput() {  
var buffer = ""  
override fun print(message: Any?) {  
buffer += String(message)  
}  
override fun flush() {  
buffer = ""  
}  
JsName used to make the declaration available outside of module to test it  
@JsName("BufferedOutputToConsoleLog")  
internal class BufferedOutputToConsoleLog : BufferedOutput() {  
override fun print(message: Any?) {  
var s = String(message)  
val i = s.nativeLastIndexOf("\n",

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0)\n    if (i >= 0) {\n        buffer += s.substring(0, i)\n        flush()\n        s = s.substring(i + 1)\n    }\n    buffer += s\n }\n\n override fun flush() {\n    console.log(buffer)\n    buffer = ""\n }\n}\n\n/** JsName
used to make the declaration available outside
of module to test it and use at try.kotl.in */\n@JsName("output")\ninternal var output = run {\n    val isNode:
Boolean = js("typeof process !== 'undefined' && process.versions && !process.versions.node")\n    if (isNode)
NodeJsOutput(js("process.stdout")) else
BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate inline fun String(value: Any?): String =
js("String")(value)\n\n/** Prints the line separator to the standard output stream. */\npublic actual fun println() {\n
output.println()\n}\n\n/** Prints the given [message] and the line separator to the standard output stream. */\npublic
actual fun println(message: Any?) {\n    output.println(message)\n}\n\n/** Prints the given [message] to the standard
output stream. */\npublic actual fun print(message: Any?) {\n
output.print(message)\n}\n\n@SinceKotlin("1.6")\npublic actual fun readln(): String = throw
UnsupportedOperationException("readln is not supported in Kotlin/JS")\n\n@SinceKotlin("1.6")\npublic
actual fun readlnOrNull(): String? = throw UnsupportedOperationException("readlnOrNull is not supported in
Kotlin/JS"), /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.*\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal
actual class SafeContinuation<in T>\ninternal actual constructor(\n    private val delegate: Continuation<T>,\n
initialResult: Any?)\n) : Continuation<T> {\n    @PublishedApi\n    internal actual constructor(delegate:
Continuation<T>) : this(delegate, UNDECIDED)\n\n    public actual override val context: CoroutineContext\n
get() = delegate.context\n\n    private var result: Any? = initialResult\n\n    public actual override fun
resumeWith(result:
Result<T>) {\n        val cur = this.result\n        when {\n            cur === UNDECIDED -> {\n                this.result =
result.value\n            }\n            cur === COROUTINE_SUSPENDED -> {\n                this.result = RESUMED\n
                delegate.resumeWith(result)\n            }\n            else -> throw IllegalStateException("Already resumed")\n
        }\n    }\n\n    @PublishedApi\n    internal actual fun getOrThrow(): Any? {\n        if (result === UNDECIDED) {\n
            result = COROUTINE_SUSPENDED\n            return COROUTINE_SUSPENDED\n        }\n        val result =
this.result\n        return when {\n            result === RESUMED -> COROUTINE_SUSPENDED // already called
continuation, indicate COROUTINE_SUSPENDED upstream\n            result is Result.Failure -> throw
result.exception\n            else -> result // either COROUTINE_SUSPENDED or data\n        }\n    }\n}\n\n", /*\n *
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contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.cancellation\n\n@SinceKotlin("1.4")\npublic actual
open class CancellationException : IllegalStateException {\n    actual constructor(): super()\n    actual
constructor(message: String?): super(message)\n    constructor(message: String?, cause: Throwable?):
super(message, cause)\n    constructor(cause: Throwable?): super(cause)\n}\n\n", /*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.js.internal\n\nimport
kotlin.coroutines.Continuation\nimport
kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal val
EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n    result.getOrThrow()\n}\n\n", /*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.js\n\n/**\n * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n
*/\n\n@Suppress("NOT_DOCUMENTED")\npublic external class Date() {\n    public constructor(milliseconds:
Number)\n\n    public constructor(dateString: String)\n\n    public constructor(year: Int, month: Int)\n\n    public

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constructor(year: Int, month: Int, day: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\n\n    public fun getDate(): Int\n\n    public fun getDay(): Int\n\n    public fun getFullYear(): Int\n\n    public fun getHours(): Int\n\n    public fun getMilliseconds(): Int\n\n    public fun getMinutes(): Int\n\n    public fun getMonth(): Int\n\n    public fun getSeconds(): Int\n\n    public fun getTime(): Double\n\n    public fun getTimezoneOffset(): Int\n\n    public fun getUTCDate(): Int\n\n    public fun getUTCDay(): Int\n\n    public fun getUTCFullYear(): Int\n\n    public fun getUTCHours(): Int\n\n    public fun getUTCMilliseconds(): Int\n\n    public fun getUTCMinutes(): Int\n\n    public fun getUTCMonth(): Int\n\n    public fun getUTCSeconds(): Int\n\n    public fun toDateString(): String\n\n    public fun toISOString(): String\n\n    public fun toJSON(): Json\n\n    public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n    public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n\n    public fun toTimeString(): String\n\n    public fun toUTCString(): String\n\n    public companion object {\n\n        public fun now(): Double\n\n        public fun parse(dateString: String): Double\n\n        public fun UTC(year: Int, month: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n    }\n\n    public interface LocaleOptions {\n\n        public var localeMatcher: String?\n\n        public var timeZone: String?\n\n        public var hour12: Boolean?\n\n        public var formatMatcher: String?\n\n        public var weekday: String?\n\n        public var era: String?\n\n        public var year: String?\n\n        public var month: String?\n\n        public var day: String?\n\n        public var hour: String?\n\n        public var minute: String?\n\n        public var second: String?\n\n        public var timeZoneName: String?\n    }\n\n    public inline fun dateLocaleOptions(init: Date.LocaleOptions() -> Unit): Date.LocaleOptions {\n\n        val result = js(\"new Object()\").unsafeCast<Date.LocaleOptions>()\n\n        init(result)\n\n        return result\n    }, \"/*\n\n    * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n    * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n    */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Document\n\nimport org.w3c.dom.Element\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\nimport kotlinx.dom.appendElement as newAppendElement\n\nimport kotlinx.dom.createElement as newCreateElement\n\n/**\n * Creates a new element with the specified [name].\n */\n * The element is initialized with the specified [init] function.\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved to another package, use 'kotlinx.dom.createElement' instead.\",\n    replaceWith = ReplaceWith(\"this.createElement(name, init)\",\n        \"kotlinx.dom.createElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun Document.createElement(name: String, noinline init: Element() -> Unit): Element = this.newCreateElement(name, init)\n\n/**\n * Appends a newly created element with the specified [name] to this element.\n */\n * The element is initialized with the specified [init] function.\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved to another package, use 'kotlinx.dom.appendElement' instead.\",\n    replaceWith = ReplaceWith(\"this.appendElement(name, init)\",\n        \"kotlinx.dom.appendElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun Element.appendElement(name: String, noinline init: Element() -> Unit): Element = this.newAppendElement(name, init)\n\n\", \"/*\n    * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming

```

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Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport kotlin.dom.addClass
as newAddClass\nimport kotlin.dom.hasClass as newHasClass\nimport kotlin.dom.removeClass as
newRemoveClass\n\n/** Returns true if the element has the given CSS class style in its 'class' attribute
*/\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved to another package,
use 'kotlin.dom.hasClass' instead.\",\n    replaceWith = ReplaceWith(\"this.hasClass(cssClass)\",
\"kotlin.dom.hasClass\")\n)\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n\ninline fun
Element.hasClass(cssClass: String): Boolean = this.newHasClass(cssClass)\n\n/**\n * Adds CSS class to element.
Has no effect if all specified classes are already in class attribute of the element\n * \n * @return true if at least one
class has been added\n */\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved
to another package, use 'kotlin.dom.addClass' instead.\",\n    replaceWith =
ReplaceWith(\"this.addClass(cssClasses)\", \"kotlin.dom.addClass\")\n)\n\n@DeprecatedSinceKotlin(warningSince
= \"1.4\", errorSince = \"1.6\")\n\ninline fun Element.addClass(vararg cssClasses: String): Boolean =
this.newAddClass(*cssClasses)\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all specified
classes are missing in class attribute of the element\n * \n * @return true if at least one class has been removed\n
*/\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved to another package,
use 'kotlin.dom.removeClass' instead.\",\n    replaceWith = ReplaceWith(\"this.removeClass(cssClasses)\",
\"kotlin.dom.removeClass\")\n)\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n\ninline
fun Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport kotlin.dom.isElement as newIsElement\nimport
kotlin.dom.isText as newIsText\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a
CDATA_SECTION_NODE.\n */\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API
is moved to another package, use 'kotlin.dom.isText' instead.\",\n    replaceWith = ReplaceWith(\"this.isText\",
\"kotlin.dom.isText\")\n)\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n\npublic val
Node.isText: Boolean\n    inline get() = this.newIsText\n\n/**\n * Gets a value indicating whether this node is an
[Element].\n */\n\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved to
another package, use 'kotlin.dom.isElement' instead.\",\n    replaceWith = ReplaceWith(\"this.isElement\",
\"kotlin.dom.isElement\")\n)\n\n@DeprecatedSinceKotlin(warningSince
= \"1.4\", errorSince = \"1.6\")\n\npublic val Node.isElement: Boolean\n    inline get() = this.newIsElement\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) -> Unit): EventListener =
EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler: (Event) -> Unit) :
EventListener {\n    public override fun handleEvent(event: Event) {\n        handler(event)\n    }\n\n    public
override fun toString(): String = \"EventListenerHandler($handler)\"\n\n}\n\n/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\npublic external
interface ItemArrayLike<out T> {\n    val length: Int\n    fun item(index: Int): T?\n}\n\n/**\n * Returns the view of
this `ItemArrayLike<T>` collection as `List<T>`\n */\n\npublic fun <T> ItemArrayLike<T>.asList(): List<T> =
object : AbstractList<T>() {\n    override val size: Int get() = this@asList.length\n\n    override fun get(index: Int): T
= when (index) {\n        in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()\n        else -> throw
IndexOutOfBoundsException(\"index $index is not in range [0..$lastIndex]\")\n    }\n}\n\n/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport

```

```

org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport kotlin.dom.appendText as newAppendText\nimport
kotlin.dom.clear as newClear\n\n/** Removes all the children
from this node. *\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved to
another package, use 'kotlin.dom.clear' instead.\",\n    replaceWith = ReplaceWith(\"this.clear()\",
\"kotlin.dom.clear()\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun
Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this
element\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = \"This API is moved to another
package, use 'kotlin.dom.appendText' instead.\",\n    replaceWith = ReplaceWith(\"this.appendText(text)\",
\"kotlin.dom.appendText()\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\n\n\"/>\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that
can be found in the license/LICENSE.txt file.\n *\n@package kotlin.js\n\n/**\n * Reinterprets this value as a value
of the [dynamic type](/docs/reference/dynamic-type.html).\n *\n@kotlin.internal.InlineOnly\npublic inline fun
Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T] without any
actual type checking.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of the
specified type [T] without any actual type checking.\n
*\n@kotlin.internal.DynamicExtension\n@JsName(\"unsafeCastDynamic\")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n *\n@kotlin.internal.DynamicExtension\npublic
operator fun dynamic.iterator(): Iterator<dynamic> {\n    val r: Any? = this\n    return when {\n
this[\"iterator\"] != null ->\n        this[\"iterator\"]()\n        isArrayish(r) ->\n
r.unsafeCast<Array<*>>().iterator()\n        else ->\n        (r as Iterable<*>).iterator()\n    }\n}\n\n\"/>\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@package is
omitted to get declarations directly under the module\n\n@JsName(\"throwNPE\")\ninternal fun
throwNPE(message: String) {\n    throw NullPointerException(message)\n}\n\n@JsName(\"throwCCE\")\ninternal
fun throwCCE() {\n    throw ClassCastException(\"Illegal cast\")\n}\n\n@JsName(\"throwISE\")\ninternal fun
throwISE(message: String) {\n    throw IllegalStateException(message)\n}\n\n@JsName(\"throwUPAE\")\ninternal
fun throwUPAE(propertyName: String) {\n    throw UninitializedPropertyAccessException(\"lateinit property
${propertyName} has not been initialized\")\n}\n\n\"/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n@package kotlin.collections\n\n/**\n * Groups elements from the
[Grouping] source by key and counts elements in each group.\n *\n * @return a [Map] associating the key of each
group with the count of elements in the group.\n *\n * @sample
samples.collections.Grouping.groupingByEachCount\n *\n@SinceKotlin(\"1.1\")\npublic actual fun <T, K>
Grouping<T, K>.eachCount(): Map<K, Int> =\n    fold(0) { acc, _ -> acc + 1 }\n\n\"/>\n * Groups elements from
the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each
group.\n *\n * @return a [Map] associating the key of each
group with the count of element in the group.\n *\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Grouping<T,
K>.eachSumOf(valueSelector: (T) -> Int): Map<K, Int> =\n    fold(0) { acc, e -> acc + valueSelector(e)
}\n\n\"/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmName(\"GroupingKt\")\n@file:kotlin.jvm.JvmMultifileClass\n@package
kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each

```

element to get its key.  
 \* A [Grouping] structure serves as an intermediate step in group-and-fold operations:  
 \* they group elements by their keys and then fold each group with some aggregating operation.  
 \* It is created by attaching `keySelector: (T) -> K` function to a source of elements.  
 \* To get an instance of [Grouping] use one of `groupingBy`

```
extension functions:
- [Iterable.groupingBy]
- [Sequence.groupingBy]
- [Array.groupingBy]
- [CharSequence.groupingBy]

For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.

@SinceKotlin("1.1")
public interface Grouping<T, out K> {
    /** Returns an [Iterator] over the elements of the source of this grouping. */
    fun sourceIterator(): Iterator<T>
    /** Extracts the key of an [element]. */
    fun keyOf(element: T): K
}

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map.

The key for each element is provided by the [Grouping.keyOf] function.

@param operation function is invoked on each element with the following parameters:
- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;
- `element`: the element from the source being aggregated;
- `first`: indicates whether it's the first `element` encountered in the group.

@return a [Map] associating the key of each group with the result of aggregation of the group elements.

@sample
samples.collections.Grouping.aggregateByRadix

@SinceKotlin("1.1")
public inline fun <T, K, R> Grouping<T, K>.aggregate(
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R): Map<K, R> {
    return aggregateTo(mutableMapOf<K, R>(), operation)
}

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map.

The
```

```
key for each element is provided by the [Grouping.keyOf] function.

@param operation a function that is invoked on each element with the following parameters:
- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;
- `element`: the element from the source being aggregated;
- `first`: indicates whether it's the first `element` encountered in the group.

If the [destination] map already has a value corresponding to some key, then the elements being aggregated for that key are never considered as `first`.

@return the [destination] map associating the key of each group with the result of aggregation of the group elements.

@sample
samples.collections.Grouping.aggregateByRadixTo

@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.aggregateTo(
    destination: M,
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R): M {
    for (e in this.sourceIterator()) {
        val key = keyOf(e)
        val accumulator = destination[key]
        destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))
    }
    return destination
}

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map.

An initial value of accumulator is provided by [initialValueSelector] function.

@param initialValueSelector a function that provides an initial value of accumulator for each group.

It's invoked with parameters:
- `key`: the key of the group;
- `element`: the first element being encountered in that group.

@param operation a function that is invoked on each element with the following parameters:
- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.

@return a [Map] associating the key of each group with the result of accumulating the group elements.

@sample
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue

@SinceKotlin("1.1")
public inline fun <T, K, R> Grouping<T, K>.fold(
    initialValueSelector: (key: K, element: T) -> R,
    operation: (key: K, accumulator: R, element: T) -> R): Map<K, R> =
    @Suppress("UNCHECKED_CAST")
    aggregate { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }

Groups
```

elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map. An initial value of accumulator is provided by [initialValueSelector] function.

@param initialValueSelector a function that provides an initial value of accumulator for each group. It's invoked with parameters:

- key: the key of the group;
- element: the first element being encountered in that group.

If the [destination] map already has a value corresponding to some key, that value is used as an initial value of the accumulator for that group and the [initialValueSelector] function is not called for that group.

@param operation a function that is invoked on each element with the following parameters:

- key: the key of the group this element belongs to;
- accumulator: the current value of the accumulator of the group;
- element: the element from the source being accumulated.

@return the [destination] map associating the key of each group with the result of accumulating the group elements.

```

@sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo
*/
@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(
destination: M,
initialValueSelector: (key: K, element: T) -> R,
operation: (key: K, accumulator: R, element: T) -> R): M =
@Suppress("UNCHECKED_CAST")
aggregateTo(destination) { key, acc, e, first ->
operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }
*/
*/
Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map. An initial value of accumulator is the same [initialValue] for each group.
@param operation a function that is invoked on each element with the following parameters:
accumulator: the current value of the accumulator of the group;
element: the element from the source being accumulated.
@return a [Map] associating the key of each group with the result of accumulating the group elements.
@sample
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue
*/
@SinceKotlin("1.1")
public inline fun <T, K, R> Grouping<T, K>.fold(
initialValue: R,
operation: (accumulator: R, element: T) -> R): Map<K, R> =
@Suppress("UNCHECKED_CAST")
aggregate { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }
*/
*/
Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map. An initial value of accumulator is the same [initialValue] for each group.
If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the accumulator for that group.
@param operation a function that is invoked on each element with the following parameters:
accumulator: the current value of the accumulator of the group;
element: the element from the source being accumulated.
@return the [destination] map associating the key of each group with the result of accumulating the group elements.
@sample
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo
*/
@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(
destination: M,
initialValue: R,
operation: (accumulator: R, element: T) -> R): M =
@Suppress("UNCHECKED_CAST")
aggregateTo(destination) { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }
*/
*/
Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group sequentially starting from the second element of the group, passing the previously accumulated value and the current element as arguments, and stores the results in a new map. An initial value of accumulator is the first element of the group.
@param operation a function that is invoked on each subsequent element of the group with the following parameters:
key: the key of the group this element belongs to;
accumulator: the current value of the accumulator of the group;
element: the element from the source being accumulated.
@return a [Map] associating the key of each group with the result of accumulating the group elements.
@sample
samples.collections.Grouping.reduceByMaxVowels
*/
@SinceKotlin("1.1")
public inline fun <S, T : S, K> Grouping<T, K>.reduce(
operation: (key: K, accumulator: S, element: T) -> S): S =

```

```

Map<K, S> =\n    aggregate { key, acc, e, first ->\n        @Suppress("UNCHECKED_CAST")\n        if (first) e else operation(key, acc as S, e)\n    }\n\n/**\n * Groups elements from the [Grouping] source by key and\n * applies the reducing [operation] to the elements of each group\n * sequentially starting from the second element of\n * the group,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the\n * results in the given [destination] map.\n * An initial value of accumulator is the first element of the group.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial\n * value of the accumulator for that group and the first element of that group is also\n * subjected to the\n * [operation].\n *\n * @param operation a function that is invoked on each subsequent element of the group with the\n * following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the\n * element from the source being folded;\n *\n * @return the [destination] map associating\n * the key of each group with the result of accumulating the group elements.\n *\n * @sample\n * samples.collections.Grouping.reduceByMaxVowelsTo\n */\n\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K,\n M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n    destination: M,\n    operation: (key: K, accumulator: S,\n element: T) -> S)\n: M =\n    aggregateTo(destination) { key, acc, e, first ->\n        @Suppress("UNCHECKED_CAST")\n        if (first) e else operation(key, acc as S, e)\n    }\n\n/**\n * Groups\n * elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an\n * initial value of the counter for that group.\n *\n * @return the [destination] map associating the key of each group\n * with the count of elements in the group.\n *\n * @sample\n * samples.collections.Grouping.groupingByEachCount\n */\n\n@SinceKotlin("1.1")\npublic\n fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\n    foldTo(destination, 0) { acc, _ -> acc + 1 }\n\n/**\n * Groups elements from the [Grouping] source by key and\n * sums values provided by the [valueSelector] function for elements in each group\n * to the given [destination]\n * map.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value\n * is used as an initial value of the sum for that group.\n *\n * @return the [destination] map associating the key of\n * each group with the sum of elements in the group.\n */\n\n@SinceKotlin("1.1")\npublic inline fun <T, K, M :\n MutableMap<in K, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n    foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}\n\n// TODO: sum by long and by double\noverloads\n\npublic inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T,\n K>.sumEachByLongTo(destination: M, valueSelector:\n (T) -> Long): M =\n    foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K>\n Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n    fold(0L) { acc, e -> acc +\n valueSelector(e)}\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T,\n K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n    foldTo(destination, 0.0) { acc, e\n -> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) ->\n Double): Map<K, Double> =\n    fold(0.0) { acc, e -> acc + valueSelector(e)}\n\n"/*\n * Copyright 2010-2018\n JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\n Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * An\n * interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is\n * [Any?][Any].\n *\n * @public external interface Json {\n *     /**\n *      * Calls to the function will be translated to indexing operation\n * (square brackets) on the receiver with [propertyName] as the argument.\n *      *\n *      * E.g. for next code:\n *      *\n *      ```kotlin\n *      * fun test(j: Json, p: String) = j["prop"] + j.get(p)\n *      *\n *      * will be generated:\n *      *\n *      ```js\n *      * function test(j, p) {\n *      *     return j["prop"] + j[p];\n *      * }\n *      *\n *      * @operator fun\n * get(propertyName: String): Any?\n *      *\n *      * Calls of the function will be translated to an assignment of [value]\n * to the receiver indexed (with square brackets/index operation) with [propertyName].\n *      *\n *      * E.g. for the\n * following code:\n *      *\n *      ```kotlin\n *      * fun test(j: Json, p: String, newValue: Any) {\n *      *     j["prop"] = 1\n *      *\n *      * j.set(p, newValue)\n *      *\n *      * will be generated:\n *      *\n *      ```js\n *      * function test(j, p, newValue)

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{\n * j["prop"]
= 1;\n * j[p] = newValue;\n * }\n * }\n * ``\n * ^\n operator fun set(propertyName: String, value:
Any?): Unit{\n}\n/**\n * Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names
and values of its properties.\n */\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n val res: dynamic =
js("{}")\n for ((name, value) in pairs) {\n res[name] = value\n }\n return res\n}\n/**\n * Adds key-
value pairs from [other] to [this].\n * Returns the original receiver.\n */\npublic fun Json.add(other: Json): Json {\n
val keys: Array<String> = js("Object").keys(other)\n for (key in keys) {\n if
(other.asDynamic().hasOwnProperty(key)) {\n this[key] = other[key];\n }\n }\n return
this\n}\n/**\n * Exposes the JavaScript [JSON object](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\n
*/\n@Suppress("NOT_DOCUMENTED")\npublic
external object JSON {\n public fun stringify(o: Any?): String\n public fun stringify(o: Any?, replacer: ((key:
String, value: Any?) -> Any?): String\n public fun stringify(o: Any?, replacer: ((key: String, value: Any?) ->
Any?)? = definedExternally, space: Int): String\n public fun stringify(o: Any?, replacer: ((key: String, value:
Any?) -> Any?)? = definedExternally, space: String): String\n public fun stringify(o: Any?, replacer:
Array<String>): String\n public fun stringify(o: Any?, replacer: Array<String>, space: Int): String\n public fun
stringify(o: Any?, replacer: Array<String>, space: String): String\n\n public fun <T> parse(text: String): T\n
public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?): T)\n}\n"/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage
kotlin.math\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.JsMath as nativeMath\n\n// region
===== Double Math =====\n/** Computes the
sine of the angle [x] given in radians.\n */\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double =
nativeMath.sin(x)\n/** Computes the cosine of the angle [x] given in radians.\n */\n * Special cases:\n * -
`cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cos(x: Double):
Double = nativeMath.cos(x)\n/** Computes the tangent of the angle [x] given in radians.\n */\n * Special cases:\n
* - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x:
Double): Double = nativeMath.tan(x)\n/** Computes the arc sine of the value [x];\n */\n * the returned value is an
angle in the range from `-PI/2` to
`PI/2` radians.\n */\n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double =
nativeMath.asin(x)\n/** Computes the arc cosine of the value [x];\n */\n * the returned value is an angle in the
range from `0.0` to `PI` radians.\n */\n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double =
nativeMath.acos(x)\n/** Computes the arc tangent of the value [x];\n */\n * the returned value is an angle in the
range from `-PI/2` to `PI/2` radians.\n */\n * Special cases:\n * - `atan(NaN)` is `NaN`\n
*/\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double =
nativeMath.atan(x)\n/** Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n */\n * to the
rectangular coordinates `(x, y)` by computing the arc tangent
of the value [y] / [x];\n */\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n */\n * Special
cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n * - `atan2(-0.0,
x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`\n * - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `'-Inf < y <
0`\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n * - `atan2(y, 0.0)` is `PI/2` for `y >
0` and `-PI/2` for `y < 0`\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n
*/\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline
fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\n/** Computes the hyperbolic sine of the
value [x].\n */\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `

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Inf` \n * \n @SinceKotlin("1.2") \n @InlineOnly \n public
  actual inline fun sinh(x: Double): Double = nativeMath.sinh(x) \n \n /** \n * Computes the hyperbolic cosine of the
  value [x]. \n * \n * Special cases: \n * - `cosh(NaN)` is `NaN` \n * - `cosh(+Inf|-Inf)` is `+Inf` \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public actual inline fun cosh(x: Double): Double =
  nativeMath.cosh(x) \n \n /** \n * Computes the hyperbolic tangent of the value [x]. \n * \n * Special cases: \n * -
  `tanh(NaN)` is `NaN` \n * - `tanh(+Inf)` is `1.0` \n * - `tanh(-Inf)` is `-1.0` \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public actual inline fun tanh(x: Double): Double =
  nativeMath.tanh(x) \n \n /** \n * Computes the inverse hyperbolic sine of the value [x]. \n * \n * The returned value is
  `y` such that `sinh(y) == x`. \n * \n * Special cases: \n * - `asinh(NaN)` is `NaN` \n * - `asinh(+Inf)` is `+Inf` \n * -
  `asinh(-Inf)` is `-Inf` \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public actual inline fun asinh(x: Double): Double
  = nativeMath.asinh(x) \n \n /** \n * Computes the inverse hyperbolic cosine of the value [x]. \n * \n * The returned value is positive `y` such that
  `cosh(y) == x`. \n * \n * Special cases: \n * - `acosh(NaN)` is `NaN` \n * - `acosh(x)` is `NaN` when `x < 1` \n * -
  `acosh(+Inf)` is `+Inf` \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public actual inline fun acosh(x: Double):
  Double = nativeMath.acosh(x) \n \n /** \n * Computes the inverse hyperbolic tangent of the value [x]. \n * \n * The
  returned value is `y` such that `tanh(y) == x`. \n * \n * Special cases: \n * - `tanh(NaN)` is `NaN` \n * - `tanh(x)` is
  `NaN` when `x > 1` or `x < -1` \n * - `tanh(1.0)` is `+Inf` \n * - `tanh(-1.0)` is `-Inf` \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public actual inline fun atanh(x: Double): Double =
  nativeMath.atanh(x) \n \n /** \n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. \n * \n *
  Special cases: \n * - returns `+Inf` if any of arguments is infinite \n * - returns `NaN` if any of arguments is `NaN`
  and the
  other is not infinite \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public actual inline fun hypot(x: Double, y:
  Double): Double = nativeMath.hypot(x, y) \n \n /** \n * Computes the positive square root of the value [x]. \n * \n *
  Special cases: \n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN` \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public actual inline fun sqrt(x: Double): Double =
  nativeMath.sqrt(x) \n \n /** \n * Computes Euler's number `e` raised to the power of the value [x]. \n * \n * Special
  cases: \n * - `exp(NaN)` is `NaN` \n * - `exp(+Inf)` is `+Inf` \n * - `exp(-Inf)` is `0.0` \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public actual inline fun exp(x: Double): Double =
  nativeMath.exp(x) \n \n /** \n * Computes `exp(x) - 1`. \n * \n * This function can be implemented to produce more
  precise result for [x] near zero. \n * \n * Special cases: \n * - `expm1(NaN)` is `NaN` \n * - `expm1(+Inf)` is `+Inf` \n
  * - `expm1(-Inf)` is `-1.0` \n * \n * @see [exp] function. \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public
  actual inline fun expm1(x: Double): Double = nativeMath.expm1(x) \n \n /** \n * Computes the logarithm of the
  value [x] to the given [base]. \n * \n * Special cases: \n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN` \n * -
  `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0` \n * - `log(+Inf, +Inf)` is `NaN` \n * - `log(+Inf, b)` is
  `+Inf` for `b > 1` and `-Inf` for `b < 1` \n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1` \n * \n * See also
  logarithm functions for common fixed bases: [ln], [log10] and [log2]. \n
*/ \n @SinceKotlin("1.2") \n public actual
  fun log(x: Double, base: Double): Double { \n   if (base <= 0.0 || base == 1.0) return Double.NaN \n   return
  nativeMath.log(x) / nativeMath.log(base) \n } \n \n /** \n * Computes the natural logarithm (base `E`) of the value [x]. \n *
  \n * Special cases: \n * - `ln(NaN)` is `NaN` \n * - `ln(x)` is `NaN` when `x < 0.0` \n * - `ln(+Inf)` is `+Inf` \n * -
  `ln(0.0)` is `-Inf` \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public
  actual inline fun ln(x: Double): Double = nativeMath.log(x) \n \n /** \n * Computes the common logarithm (base 10)
  of the value [x]. \n * \n * @see [ln] function for special cases. \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public
  actual inline fun log10(x: Double): Double = nativeMath.log10(x) \n \n /** \n * Computes the binary logarithm (base
  2) of the value [x]. \n * \n * @see [ln] function for special cases. \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public
  actual inline fun log2(x: Double): Double = nativeMath.log2(x) \n \n /** \n * Computes `ln(x + 1)`. \n * \n * This
  function can be implemented to produce more precise result for [x] near zero. \n * \n * Special cases: \n * -
  `ln1p(NaN)` is `NaN` \n * - `ln1p(x)` is `NaN` where `x < -1.0` \n * - `ln1p(-1.0)` is `-Inf` \n * - `ln1p(+Inf)` is
  `+Inf` \n * \n * @see [ln] function \n * @see [expm1] function \n
*/ \n @SinceKotlin("1.2") \n @InlineOnly \n public

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actual inline fun ln1p(x: Double): Double = nativeMath.log1p(x)\n\n**\n
 * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest double value that is
greater than or equal to the given value [x] and is a mathematical integer.\n\n * Special cases:\n\n * - `ceil(x)` is `x`
where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n
*\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun ceil(x: Double): Double =
nativeMath.ceil(x)\n\n**\n\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the
largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n\n * Special
cases:\n\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n
*\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun floor(x: Double): Double =
nativeMath.floor(x)\n\n**\n\n * Rounds the given value [x] to an integer towards zero.\n\n\n * @return the value [x]
having its fractional part truncated.\n
*\n\n * Special cases:\n\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical
integer.\n\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun truncate(x: Double): Double =
nativeMath.trunc(x)\n\n**\n\n * Rounds the given value [x] towards the closest integer with ties rounded towards
even integer.\n\n\n * Special cases:\n\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a
mathematical integer.\n\n\n@SinceKotlin("1.2")\n\npublic actual fun round(x: Double): Double {\n\n    if (x % 0.5 !=
0.0) {\n\n        return nativeMath.round(x)\n\n    }\n\n    val floor = floor(x)\n\n    return if (floor % 2 == 0.0) floor else
ceil(x)\n\n}\n\n**\n\n * Returns the absolute value of the given value [x].\n\n\n * Special cases:\n\n * - `abs(NaN)` is
`NaN`\n\n\n * @see absoluteValue extension property for [Double]\n
*\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun abs(x: Double): Double =
nativeMath.abs(x)\n\n**\n\n * Returns
the sign of the given value [x]:\n\n * - `-1.0` if the value is negative,\n\n * - zero if the value is zero,\n\n * - `1.0` if the
value is positive\n\n\n * Special case:\n\n * - `sign(NaN)` is `NaN`\n
*\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun sign(x: Double): Double =
nativeMath.sign(x)\n\n**\n\n * Returns the smaller of two values.\n\n\n * If either value is `NaN`, then the result is
`NaN`.\n\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun min(a: Double, b: Double): Double =
nativeMath.min(a, b)\n\n**\n\n * Returns the greater of two values.\n\n\n * If either value is `NaN`, then the result is
`NaN`.\n\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun max(a: Double, b: Double): Double =
nativeMath.max(a, b)\n\n**\n\n// extensions\n\n**\n\n * Raises this value to the power [x].\n\n\n * Special cases:\n\n * -
`b.pow(0.0)` is `1.0`\n\n * - `b.pow(1.0) == b`\n\n * - `b.pow(NaN)` is `NaN`\n\n * - `NaN.pow(x)` is `NaN` for `x !=
0.0`\n\n *
- `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an
integer\n\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun Double.pow(x: Double): Double =
nativeMath.pow(this, x)\n\n**\n\n * Raises this value to the integer power [n].\n\n\n * See the other overload of
[pow] for details.\n\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun Double.pow(n: Int): Double
= nativeMath.pow(this, n.toDouble())\n\n**\n\n * Returns the absolute value of this value.\n\n\n * Special cases:\n\n *
- `NaN.absoluteValue` is `NaN`\n\n\n * @see abs function\n\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic
actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n**\n\n * Returns the sign of this
value:\n\n * - `-1.0` if the value is negative,\n\n * - zero if the value is zero,\n\n * - `1.0` if the value is positive\n\n\n *
Special case:\n\n * - `NaN.sign` is `NaN`\n\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic
actual inline val Double.sign: Double get() = nativeMath.sign(this)\n\n**\n\n * Returns this value with the sign bit
same as of the [sign] value.\n\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun
Double.withSign(sign: Int): Double = this.withSign(sign.toDouble())\n\n**\n\n * Returns the ulp (unit in the last
place) of this value.\n\n\n * An ulp is a positive distance between this value and the next nearest [Double] value
larger in magnitude.\n\n\n * Special Cases:\n\n * - `NaN.ulp` is `NaN`\n\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or
`-Inf`\n\n * - `0.0.ulp` is `Double.MIN_VALUE`\n\n\n@SinceKotlin("1.2")\n\npublic actual val Double.ulp: Double
get() = when {\n\n    this < 0 -> (-this).ulp\n\n    this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n\n    this ==
Double.MAX_VALUE -> this - this.nextDown()\n\n    else -> this.nextUp() - this\n\n}\n\n**\n\n * Returns the [Double]

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value nearest to this value in direction of positive infinity.\n *\n@SinceKotlin("1.2")\npublic
actual fun Double.nextUp(): Double = when {\n  this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n  this == 0.0 -> Double.MIN_VALUE\n  else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -
1)\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of negative infinity.\n
*\n@SinceKotlin("1.2")\npublic actual fun Double.nextDown(): Double = when {\n  this.isNaN() || this ==
Double.NEGATIVE_INFINITY -> this\n  this == 0.0 -> -Double.MIN_VALUE\n  else ->
Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n\n/**\n * Returns the [Double] value nearest to this
value in direction from this value towards the value [to].\n *\n * Special cases:\n * - `x.nextTowards(y)` is `NaN` if
either `x` or `y` are `NaN`\n * - `x.nextTowards(x) == x`\n *\n@SinceKotlin("1.2")\npublic actual fun
Double.nextTowards(to: Double): Double = when {\n  this.isNaN() || to.isNaN() -> Double.NaN\n  to == this ->
to\n  to > this ->
this.nextUp()\n  else /* to < this */ -> this.nextDown()\n}\n\n\n/**\n * Rounds this [Double] value to the nearest
integer and converts the result to [Int].\n *\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n
*\n@SinceKotlin("1.2")\npublic actual fun Double.roundToInt(): Int = when {\n  isNaN() -> throw
IllegalArgumentException("Cannot round NaN value.")\n  this > Int.MAX_VALUE -> Int.MAX_VALUE\n  this < Int.MIN_VALUE -> Int.MIN_VALUE\n  else -> nativeMath.round(this).toInt()\n}\n\n\n/**\n * Rounds this
[Double] value to the nearest integer and converts the result to [Long].\n *\n * Ties are rounded towards positive
infinity.\n *\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x >
Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE`
when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n
*\n@SinceKotlin("1.2")\npublic actual fun Double.roundToLong(): Long = when {\n  isNaN() -> throw
IllegalArgumentException("Cannot round NaN value.")\n  this > Long.MAX_VALUE -> Long.MAX_VALUE\n  this < Long.MIN_VALUE -> Long.MIN_VALUE\n  else -> nativeMath.round(this).toLong()\n}\n\n\n//
endregion\n\n\n// region ===== Float Math
=====
\n\n/**\n * Computes the sine of the angle [x] given in
radians.\n *\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Float): Float =
nativeMath.sin(x.toDouble()).toFloat()\n\n\n/**\n * Computes the cosine of the angle [x] given in radians.\n *\n * Special
cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun
cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\n\n\n/**\n * Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is
`NaN`\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x: Float): Float =
nativeMath.tan(x.toDouble()).toFloat()\n\n\n\n/**\n * Computes the arc sine of the value [x];\n *\n * the returned value is
an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) >
1` or x is `NaN`\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Float): Float =
nativeMath.asin(x.toDouble()).toFloat()\n\n\n\n/**\n * Computes the arc cosine of the value [x];\n *\n * the returned value
is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) >
1` or x is `NaN`\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Float): Float =
nativeMath.acos(x.toDouble()).toFloat()\n\n\n\n/**\n * Computes the arc tangent of the value [x];\n *\n * the
returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `atan(NaN)` is
`NaN`\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Float): Float =
nativeMath.atan(x.toDouble()).toFloat()\n\n\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that
correspond\n *\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n *\n * the
returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n * - `atan2(0.0, 0.0)` is
`0.0`\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI`
for `x < 0`\n * - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`\n * - `atan2(y, -Inf)` is `PI`

```

for  $0 < y < +\text{Inf}$  and  $-\text{PI}$  for  $-\text{Inf} < y < 0$   $\text{atan2}(y, 0.0)$  is  $\text{PI}/2$  for  $y > 0$  and  $-\text{PI}/2$  for  $y < 0$   $\text{atan2}(+\text{Inf}, x)$  is  $\text{PI}/2$  for finite  $x$

$\text{atan2}(-\text{Inf}, x)$  is  $-\text{PI}/2$  for finite  $x$   $\text{atan2}(\text{NaN}, x)$  and  $\text{atan2}(y, \text{NaN})$  is  $\text{NaN}$

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun atan2(y: Float, x: Float): Float =
    nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()
    * Computes the hyperbolic sine of the value [x].
    * Special cases:
    * - sinh(NaN) is NaN
    * - sinh(+Inf) is +Inf
    * - sinh(-Inf) is -Inf

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun sinh(x: Float): Float =
    nativeMath.sinh(x.toDouble()).toFloat()
    * Computes the hyperbolic cosine of the value [x].
    * Special cases:
    * - cosh(NaN) is NaN
    * - cosh(+Inf|-Inf) is +Inf

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun cosh(x: Float): Float =
    nativeMath.cosh(x.toDouble()).toFloat()
    * Computes the hyperbolic tangent of the value [x].
    * Special cases:
    * - tanh(NaN) is NaN
    * - tanh(+Inf) is 1.0
    * - tanh(-Inf) is -1.0

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun tanh(x: Float): Float =
    nativeMath.tanh(x.toDouble()).toFloat()
    * Computes the inverse hyperbolic sine of the value [x].
    * The returned value is `y` such that `sinh(y) == x`.
    * Special cases:
    * - asinh(NaN) is NaN
    * - asinh(+Inf) is +Inf
    * - asinh(-Inf) is -Inf

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun asinh(x: Float): Float =
    nativeMath.asinh(x.toDouble()).toFloat()
    * Computes the inverse hyperbolic cosine of the value [x].
    * The returned value is positive `y` such that `cosh(y) == x`.
    * Special cases:
    * - acosh(NaN) is NaN
    * - acosh(x) is NaN when `x < 1`
    * - acosh(+Inf) is +Inf

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun acosh(x: Float): Float =
    nativeMath.acosh(x.toDouble()).toFloat()
    * Computes the inverse hyperbolic tangent of the value [x].
    * The returned value is `y` such that `tanh(y) == x`.
    * Special cases:
    * - tanh(NaN) is NaN
    * - tanh(x) is NaN when `x > 1` or `x < -1`
    * - tanh(1.0) is +Inf
    * - tanh(-1.0) is -Inf

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun atanh(x: Float): Float =
    nativeMath.atanh(x.toDouble()).toFloat()
    * Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or underflow.
    * Special cases:
    * - returns +Inf if any of arguments is infinite
    * - returns NaN if any of arguments is NaN and the other is not infinite

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun hypot(x: Float, y: Float): Float =
    nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()
    * Computes the positive square root of the value [x].
    * Special cases:
    * - sqrt(x) is NaN when `x < 0` or `x` is NaN

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun sqrt(x: Float): Float =
    nativeMath.sqrt(x.toDouble()).toFloat()
    * Computes Euler's number `e` raised to the power of the value [x].
    * Special cases:
    * - exp(NaN) is NaN
    * - exp(+Inf) is +Inf
    * - exp(-Inf) is 0.0

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun exp(x: Float): Float =
    nativeMath.exp(x.toDouble()).toFloat()
    * Computes  $\exp(x) - 1$ .
    * This function can be implemented to produce more precise result for [x] near zero.
    * Special cases:
    * - expm1(NaN) is NaN
    * - expm1(+Inf) is +Inf
    * - expm1(-Inf) is -1.0
    * @see [exp] function.

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun expm1(x: Float): Float =
    nativeMath.expm1(x.toDouble()).toFloat()
    * Computes the logarithm of the value [x] to the given [base].
    * Special cases:
    * - log(x, b) is NaN if either `x` or `b` are NaN
    * - log(x, b) is NaN when `x < 0` or `b <= 0` or `b == 1.0`
    * - log(+Inf, +Inf) is NaN
    * - log(+Inf, b) is +Inf for `b > 1` and -Inf for `b < 1`
    * - log(0.0, b) is -Inf for `b > 1` and +Inf for `b > 1`
    * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun log(x: Float, base: Float): Float =
    log(x.toDouble(), base.toDouble()).toFloat()
    * Computes the natural logarithm (base `E`) of the value [x].
    * Special cases:
    * - ln(NaN) is NaN
    * - ln(x) is NaN when `x < 0.0`
    * - ln(+Inf) is +Inf
    * - ln(0.0) is -Inf

```

```

@SinceKotlin("1.2")@InlineOnly@public actual inline fun ln(x: Float): Float =
    nativeMath.log(x.toDouble()).toFloat()
    * Computes the common logarithm (base 10) of the value [x].

```

\* @see [ln] function for special cases.  
`fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()`  
 Computes the binary logarithm (base 2) of the value [x].

\* @see [ln] function for special cases.  
`fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()`  
 Computes  $\ln(a + 1)$ . This function can be implemented to produce more precise result for [x] near zero.  
 Special cases:  
 $\ln(\text{NaN})$  is  $\text{NaN}$   
 $\ln(x)$  is  $\text{NaN}$  where  $x < -1.0$   
 $\ln(-1.0)$  is  $-\text{Inf}$   
 $\ln(+\text{Inf})$  is  $+\text{Inf}$   
 @see [ln] function  
 @see [expm1] function

\* @see [ln] function  
`fun ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()`  
 Rounds the given value [x] to an integer towards positive infinity.  
 @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.  
 Special cases:  
 $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

\* @see [ln] function  
`fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()`  
 Rounds the given value [x] to an integer towards negative infinity.  
 @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.  
 Special cases:  
 $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

\* @see [ln] function  
`fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()`  
 Rounds the given value [x] to an integer towards zero.  
 @return the value [x] having its fractional part truncated.  
 Special cases:  
 $\text{truncate}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

\* @see [ln] function  
`fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()`  
 Rounds the given value [x] towards the closest integer with ties rounded towards even integer.  
 Special cases:  
 $\text{round}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

\* @see [ln] function  
`fun round(x: Float): Float = round(x.toDouble()).toFloat()`  
 Returns the absolute value of the given value [x].  
 Special cases:  
 $\text{abs}(\text{NaN})$  is  $\text{NaN}$   
 @see absoluteValue extension property for [Float]

\* @see [ln] function  
`fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()`  
 Returns the sign of the given value [x]:  
 $-1.0$  if the value is negative,  
 zero if the value is zero,  
 $1.0$  if the value is positive  
 Special case:  
 $\text{sign}(\text{NaN})$  is  $\text{NaN}$

\* @see [ln] function  
`fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()`  
 Returns the smaller of two values.  
 If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .

\* @see [ln] function  
`fun min(a: Float, b: Float): Float = nativeMath.min(a, b).toFloat()`  
 Returns the greater of two values.  
 If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .

\* @see [ln] function  
`fun max(a: Float, b: Float): Float = nativeMath.max(a, b).toFloat()`  
 Raises this value to the power [x].  
 Special cases:  
 $b.\text{pow}(0.0)$  is  $1.0$   
 $b.\text{pow}(1.0) == b$   
 $b.\text{pow}(\text{NaN})$  is  $\text{NaN}$   
 $\text{NaN}.\text{pow}(x)$  is  $\text{NaN}$  for  $x != 0.0$   
 $b.\text{pow}(\text{Inf})$  is  $\text{NaN}$  for  $\text{abs}(b) == 1.0$   
 $b.\text{pow}(x)$  is  $\text{NaN}$  for  $b < 0$  and  $x$  is finite and not an integer

\* @see [ln] function  
`fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()`  
 Raises this value to the integer power [n].  
 See the other overload of [pow] for details.

\* @see [ln] function  
`fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()`  
 Returns the absolute value of this value.  
 Special cases:  
 $\text{NaN}.\text{absoluteValue}$  is  $\text{NaN}$   
 @see abs function

\* @see [ln] function  
`val Float.absoluteValue: Float get() = nativeMath.abs(this.toDouble()).toFloat()`  
 Returns the sign of this value:  
 $-1.0$  if the value is negative,  
 zero if the value is zero,  
 $1.0$  if the value is positive  
 Special case:  
 $\text{NaN}.\text{sign}$  is  $\text{NaN}$

\* @see [ln] function  
`val Float.sign: Float get() = nativeMath.sign(this.toDouble()).toFloat()`

```

nativeMath.sign(this.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the [sign]
value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n
*\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun Float.withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n *
Returns this value with the sign bit same as of the [sign] value.\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun Float.withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\n\n\n/**\n *
Rounds this [Float] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive
infinity.\n *\n * Special cases:\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * -
`x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException
when this value is `NaN`\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt():
Int = toDouble().roundToInt()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *
- `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() ==
Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value
is `NaN`\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long =
toDouble().roundToLong()\n\n\n// endregion\n\n// region ===== Integer Math
=====
\n\n\n/**\n * Returns the absolute value of the given value
[n].\n *\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see
absoluteValue extension property for [Int]\n\n// TODO: remove manual 'or' when KT-19290 is
fixed\n@SinceKotlin("1.2")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n/**\n * Returns the
smaller of two values.\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int =
nativeMath.min(a, b)\n\n\n/**\n * Returns the greater of two values.\n
*\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a, b)\n\n\n/**\n * Returns the absolute value of this
value.\n *\n * Special cases:\n * - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n
*\n * @see abs function\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int
get() = abs(this)\n\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is
zero,\n * - `1` if the value is positive\n\n@SinceKotlin("1.2")\npublic actual val Int.sign: Int get() = when {\n
this < 0 -> -1\n this > 0 -> 1\n else -> 0\n}\n\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n
* Special cases:\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see
absoluteValue extension property for [Long]\n\n@SinceKotlin("1.2")\npublic actual fun abs(n: Long): Long = if
(n < 0) -n else n\n\n\n/**\n * Returns the
smaller of two values.\n\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
fun min(a: Long, b: Long): Long = if (a <= b) a else b\n\n\n/**\n * Returns the greater of two values.\n
*\n\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun max(a: Long, b:
Long): Long = if (a >= b) a else b\n\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * -
`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n
*\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() =
abs(this)\n\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n
*\n * - `1` if the value is positive\n\n@SinceKotlin("1.2")\npublic actual val Long.sign: Int get() = when {\n
this < 0 -> -1\n this > 0 -> 1\n else -> 0\n}\n\n\n// endregion\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n\n\npackage kotlin\n\n\n/**\n * Returns `true` if the specified number is a\n
*\n * Not-a-Number (NaN) value, `false` otherwise.\n\npublic actual fun Double.isNaN(): Boolean = this !=
this\n\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n
*\n\npublic actual fun Float.isNaN(): Boolean = this != this\n\n\n/**\n * Returns `true` if this value is infinitely large in
magnitude.\n *\n\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this ==

```

```

Double.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic
actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this ==
Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns
`false` otherwise
(for `NaN` and infinity arguments).\n */\npublic actual fun Double.isFinite(): Boolean = !isInfinite() &&
!isNaN()\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for
`NaN` and infinity arguments).\n */\npublic actual fun Float.isFinite(): Boolean = !isInfinite() &&
!isNaN()\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countOneBits(): Int {\n // Hacker's Delight 5-1 algorithm\n var v = this\n v = (v and 0x55555555) +
(v.ushr(1) and 0x55555555)\n v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n v = (v and 0x0F0F0F0F)
+ (v.ushr(4) and 0x0F0F0F0F)\n v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n v = (v and
0x0000FFFF) + (v.ushr(16))\n return v}\n\n/**\n * Counts the number of consecutive most significant bits that
are zero in the binary representation
of this [Int] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Int.countLeadingZeroBits(): Int = JsMath.clz32(this)\n\n/**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Int] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.countTrailingZeroBits(): Int =\n // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with
countLeadingZeroBits\n Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this
number is zero.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeHighestOneBit(): Int =\n if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n/**\n
* Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or
zero, if this number is zero.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeLowestOneBit(): Int =\n // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n this and -
this\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of
bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the
right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit
count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual fun Int.rotateLeft(bitCount: Int): Int =\n shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n/**\n
* Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least
significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *
Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateRight(bitCount: Int): Int =\n shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n/**\n * Counts the
number of set bits in the binary representation of this [Long] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual fun Long.countOneBits(): Int =\n high.countOneBits() + low.countOneBits()\n\n/**\n * Counts the number
of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countLeadingZeroBits(): Int =\n when (val high = this.high) {\n 0 -> Int.SIZE_BITS +

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low.countLeadingZeroBits()\n    else -> high.countLeadingZeroBits()\n  }\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE_BITS + high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is zero.\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun Long.takeHighestOneBit(): Long =\n when (val high = this.high) {\n 0 -> Long(low.takeHighestOneBit(), 0)\n else -> Long(0, high.takeHighestOneBit())\n }\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun Long.takeLowestOneBit(): Long =\n when (val low = this.low) {\n 0 -> Long(0, high.takeLowestOneBit())\n else -> Long(low.takeLowestOneBit(), 0)\n }\n\n/**\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n *\n *\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun Long.rotateLeft(bitCount: Int): Long {\n if ((bitCount and 31) != 0) {\n val low = this.low\n val high = this.high\n val newLow = low.shl(bitCount) or high.ushr(-bitCount)\n val newHigh = high.shl(bitCount) or low.ushr(-bitCount)\n return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)\n } else {\n return if ((bitCount and 32) == 0) this else Long(high, low)\n }\n}\n\n/**\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n *\n *\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\n @n\n @package kotlin.js\n @n\n import kotlin.internal.LowPriorityInOverloadResolution\n *\n *\n * Exposes the JavaScript [Promise] object (https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global\_Objects/Promise) to Kotlin.\n *\n *\n @Suppress("NOT_DOCUMENTED")\n public open external class Promise<out T>(executor: (resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {\n @LowPriorityInOverloadResolution\n public open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>\n\n @LowPriorityInOverloadResolution\n public open fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>\n\n companion object {\n public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>\n\n public fun <S> race(promise: Array<out Promise<S>>): Promise<S>\n\n public fun reject(e: Throwable): Promise<Nothing>\n\n public fun <S> resolve(e: S): Promise<S>\n\n public fun <S> resolve(e: Promise<S>): Promise<S>\n }\n}\n\n// It's workaround for

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KT-19672 since we can fix it properly until KT-11265 isn't fixed.\ninline fun <T, S>
Promise<Promise<T>>.then(\n    noinline onFulfilled: ((T) -> S)?\n): Promise<S> {\n    return
this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S> Promise<Promise<T>>.then(\n    noinline
onFulfilled: ((T) -> S)?,\n    noinline onRejected: ((Throwable) -> S)?\n): Promise<S> {\n    return
this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport
kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\n    Random(js(\n        "(Math.random() *
Math.pow(2, 32)) | 0\").unsafeCast<Int>())\n\nprivate val INV_2_26: Double = 2.0.pow(-26)\nprivate val
INV_2_53: Double = 2.0.pow(-53)\n\ninternal actual fun doubleFromParts(hi26: Int, low27:
Int): Double =\n    hi26 * INV_2_26 + low27 * INV_2_53","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\nimport findAssociatedObject\n\n/**\n * The
experimental marker for associated objects API.\n * Any usage of a declaration annotated with
`@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,\n * or by using the compiler argument
`-Xopt-in=kotlin.reflect.ExperimentalAssociatedObjects`. \n * Also, `@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n * @Retention(value = AnnotationRetention.BINARY)\n * public annotation class
ExperimentalAssociatedObjects\n */\n * Makes the annotated annotation class an associated object key.\n * An
associated object key annotation should have single
[KClass] parameter.\n * When applied to a class with reference to an object declaration as an argument, it binds\n *
the object to the class, making this binding discoverable at runtime using [findAssociatedObject].\n
*/\n\n@ExperimentalAssociatedObjects\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.A
NNOTATION_CLASS)\npublic annotation class AssociatedObjectKey\n\n/**\n * If [T] is an
@[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T] (`S::class`),\n * returns
object `S`. \n * Otherwise returns `null`. \n */\n\n@ExperimentalAssociatedObjects\npublic inline fun <reified T :
Annotation> KClass<*>.findAssociatedObject(): Any? =\n    this.findAssociatedObject(T::class)","/*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
getKClass\n\nimport kotlin.reflect.KClass\n\nimport
kotlin.reflect.js.internal.KClassImpl\n\n/**\n * Represents the constructor of a class. Instances of `JsClass` can be
passed to JavaScript APIs that expect a constructor reference.\n */\n\nexternal interface JsClass<T : Any> {\n    /**\n
 * Returns the unqualified name of the class represented by this instance.\n     */\n    val name: String\n}\n\n/**\n
 * Obtains a constructor reference for the given `KClass`. \n */\n\nval <T : Any> KClass<T>.js: JsClass<T>\n    get() =
(this as KClassImpl<T>).jClass\n\n/**\n * Obtains a `KClass` instance for the given constructor reference.\n */\n\nval
<T : Any> JsClass<T>.kotlin: KClass<T>\n    get() = getKClass(this)\n\n"/*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport
kotlin.reflect.*\n\ninternal abstract class KClassImpl<T
: Any>(\n    internal open val jClass: JsClass<T>)\n): KClass<T> {\n    override val qualifiedName: String?\n
get() = TODO()\n\n    override fun equals(other: Any?): Boolean {\n        return other is KClassImpl<*> && jClass
== other.jClass\n    }\n\n    // TODO: use FQN\n    override fun hashCode(): Int = simpleName?.hashCode() ?: 0\n\n
override fun toString(): String {\n        // TODO: use FQN\n        return "class $simpleName"\n    }\n}\n\ninternal
class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n    override val simpleName:
String? = jClass.asDynamic().`$metadata$`.simpleName.unsafeCast<String?>()\n\n    override fun
isInstance(value: Any?): Boolean {\n        return jsIsType(value, jClass)\n    }\n}\n\ninternal class
PrimitiveKClassImpl<T : Any>(\n    jClass: JsClass<T>,\n    private val givenSimpleName: String,\n    private val
isInstanceFunction: (Any?) -> Boolean)\n): KClassImpl<T>(jClass) {\n    override fun equals(other: Any?):

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Boolean {\n    if (other !is PrimitiveKClassImpl<*>) return false\n        return super.equals(other) &&
givenSimpleName == other.givenSimpleName\n    }\n\n    override val simpleName: String? get() =
givenSimpleName\n\n    override fun isInstance(value: Any?): Boolean {\n        return isInstanceFunction(value)\n    }\n}\n\ninternal object NothingKClassImpl : KClassImpl<Nothing>(js("\\Object\\")) {\n    override val simpleName:
String = "\\Nothing\\" \n\n    override fun isInstance(value: Any?): Boolean = false\n\n    override val jClass:
JsClass<Nothing>\n        get() = throw UnsupportedOperationException("\\There's no native JS class for Nothing
type\\" )\n\n    override fun equals(other: Any?): Boolean = other === this\n\n    override fun hashCode(): Int =
0\n}\n\ninternal class ErrorKClass : KClass<Nothing> {\n    override val simpleName: String? get() =
error("\\Unknown simpleName for ErrorKClass\\" )\n    override val qualifiedName: String? get() = error("\\Unknown
qualifiedName for
ErrorKClass\\" )\n\n    override fun isInstance(value: Any?): Boolean = error("\\Can's check isInstance on
ErrorKClass\\" )\n\n    override fun equals(other: Any?): Boolean = other === this\n\n    override fun hashCode(): Int
= 0\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.reflect\n\ninternal actual inline val KClass<*>.qualifiedOrSimpleName: String? get() =
simpleName\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n// a package is omitted to get declarations directly under the module\n\n// TODO: Remove once
JsReflectionAPICallChecker supports more reflection types\n\n@file:Suppress("\\Unsupported\\" )\n\nimport
kotlin.reflect.*\n\nimport
kotlin.reflect.js.internal.*\n\n@JsName("\\createKType\\" )\n\ninternal fun createKType(\n    classifier: KClassifier,\n
arguments: Array<KTypeProjection>,\n    isMarkedNullable: Boolean\n) =\n    KTypeImpl(classifier,
arguments.asList(), isMarkedNullable)\n\n@JsName("\\createDynamicKType\\" )\n\ninternal fun
createDynamicKType(): KType = DynamicKType\n\n@JsName("\\markKTypeNullable\\" )\n\ninternal fun
markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments,
true)\n\n@JsName("\\createKTypeParameter\\" )\n\ninternal fun createKTypeParameter(\n    name: String,\n
upperBounds: Array<KType>,\n    variance: String\n): KTypeParameter {\n    val kVariance = when (variance) {\n
        "\\in" -> KVariance.IN\n        "\\out" -> KVariance.OUT\n        else -> KVariance.INVARIANT\n    }\n\n    return
KTypeParameterImpl(name, upperBounds.asList(), kVariance,
false)\n}\n\n@JsName("\\getStarKTypeProjection\\" )\n\ninternal fun getStarKTypeProjection(): KTypeProjection =\n
KTypeProjection.STAR\n\n@JsName("\\createCovariantKTypeProjection\\" )\n\ninternal
fun createCovariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.covariant(type)\n\n@JsName("\\createInvariantKTypeProjection\\" )\n\ninternal fun
createInvariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.invariant(type)\n\n@JsName("\\createContravariantKTypeProjection\\" )\n\ninternal fun
createContravariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.contravariant(type)\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class
KTypeImpl(\n    override val classifier: KClassifier,\n    override val arguments: List<KTypeProjection>,\n
override val isMarkedNullable: Boolean\n) : KType {\n    override fun equals(other: Any?):
Boolean =\n        other is KTypeImpl &&\n            classifier == other.classifier && arguments ==
other.arguments && isMarkedNullable == other.isMarkedNullable\n\n    override fun hashCode(): Int =\n
(classifier.hashCode() * 31 + arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n    override fun
toString(): String {\n        val kClass = (classifier as? KClass<*>)\n        val classifierName = when {\n
            kClass
            == null -> classifier.toString()\n            kClass.simpleName != null -> kClass.simpleName\n
            else -> "\\(non-
denotable type)\\"\n        }\n\n        val args =\n            if (arguments.isEmpty()) "\\\"\n            else
arguments.joinToString(", ", "<", ">") { it.asString() }\n        val nullable = if (isMarkedNullable) "?" else

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"\n\n    return classifierName + args + nullable\n } \n\n // TODO: this should be the implementation of
KTypeProjection.toString, see KT-30071\n private fun KTypeProjection.asString():
String {\n    if (variance == null) return "*" \n    return variance.prefixString() + type.toString()\n
}\n}\n\ninternal object DynamicKType : KType {\n    override val classifier: KClassifier? = null\n    override val
arguments: List<KTypeProjection> = emptyList()\n    override val isMarkedNullable: Boolean = false\n    override
fun toString(): String = "dynamic"\n}\n\ninternal fun KVariance.prefixString() =\n when (this) {\n
KVariance.INVARIANT -> "\n\n    KVariance.IN -> "in "\n\n    KVariance.OUT -> "out "\n } \n", /*\n *
Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n    override val
name: String,\n    override val upperBounds: List<KType>,\n    override val variance: KVariance,\n
    override val isReified: Boolean\n) : KTypeParameter {\n    override fun toString(): String = name\n}, /*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName("PrimitiveClasses")\n\ninternal object
PrimitiveClasses {\n    @JsName("anyClass")\n    val anyClass =
PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })\n\n
    @JsName("numberClass")\n    val numberClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })\n\n
    @JsName("nothingClass")\n    val nothingClass = NothingKClassImpl\n\n    @JsName("booleanClass")\n    val
booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean
})\n\n    @JsName("byteClass")\n
    val byteClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })\n\n
    @JsName("shortClass")\n    val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(),
"Short", { it is Short })\n\n    @JsName("intClass")\n    val intClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })\n\n
    @JsName("floatClass")\n    val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(),
"Float", { it is Float })\n\n    @JsName("doubleClass")\n    val doubleClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })\n\n
    @JsName("arrayClass")\n    val arrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array<*> })\n\n
    @JsName("stringClass")\n    val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(),
"String", { it is String })\n\n
    @JsName("throwableClass")\n    val throwableClass =
PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })\n\n
    @JsName("booleanArrayClass")\n    val booleanArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray
})\n\n    @JsName("charArrayClass")\n    val charArrayClass =
PrimitiveKClassImpl(js("Uint16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray
})\n\n    @JsName("byteArrayClass")\n    val byteArrayClass =
PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })\n\n
    @JsName("shortArrayClass")\n    val shortArrayClass =
PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray
})\n\n    @JsName("intArrayClass")\n    val intArrayClass =
PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", {
    it is IntArray })\n\n    @JsName("longArrayClass")\n    val longArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })\n\n
    @JsName("floatArrayClass")\n    val floatArrayClass =

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PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray
})\n\n @JsName("doubleArrayClass")\n val doubleArrayClass =
PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is
DoubleArray })\n\n @JsName("functionClass")\n fun functionClass(arity: Int): KClassImpl<Any> {\n
return functionClasses.get(arity) ?: run {\n        val result =
PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function$arity",\n
    { jsTypeOf(it) === "function" && it.asDynamic().length === arity })\n        functionClasses.asDynamic()[arity]
= result\n        result\n    }\n
    }\n\nprivate val functionClasses = arrayOfNulls<KClassImpl<Any>>(0), "/*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get
declarations directly under the module\n\nimport kotlin.reflect.*\nimport
kotlin.reflect.js.internal.*\n\n@JsName("getKClass")\ninternal fun <T : Any> getKClass(jClass: Any /*
JsClass<T> | Array<JsClass<T>> */): KClass<T> {\n    return if (js("Array").isArray(jClass)) {\n
getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())\n    } else {\n
getKClass1(jClass.unsafeCast<JsClass<T>>())\n    }\n}\n\n@JsName("getKClassM")\ninternal fun <T : Any>
getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {\n    1 ->
getKClass1(jClasses[0])\n    0 -> NothingKClassImpl.unsafeCast<KClass<T>>()\n    else ->
ErrorKClass().unsafeCast<KClass<T>>()\n}\n\n@JsName("getKClassFromExpression")\ninternal
fun <T : Any> getKClassFromExpression(e: T): KClass<T> =\n    when (jsTypeOf(e)) {\n        "string" ->
PrimitiveClasses.stringClass\n        "number" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n        "boolean" -> PrimitiveClasses.booleanClass\n
        "function" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n        else -> {\n            when {\n                e
is BooleanArray -> PrimitiveClasses.booleanArrayClass\n                e is CharArray ->
PrimitiveClasses.charArrayClass\n                e is ByteArray -> PrimitiveClasses.byteArrayClass\n                e is
ShortArray -> PrimitiveClasses.shortArrayClass\n                e is IntArray -> PrimitiveClasses.intArrayClass\n
                e is LongArray -> PrimitiveClasses.longArrayClass\n                e is FloatArray ->
PrimitiveClasses.floatArrayClass\n                e is DoubleArray -> PrimitiveClasses.doubleArrayClass\n
                e is KClass<*> -> KClass::class\n                e is Array<*> -> PrimitiveClasses.arrayClass\n                else -
> {\n                    val constructor = js("Object").getPrototypeOf(e).constructor\n                    when {\n
                        constructor === js("Object") -> PrimitiveClasses.anyClass\n                        constructor === js("Error") ->
PrimitiveClasses.throwableClass\n                        else -> {\n                            val jsClass: JsClass<T> =
constructor\n                            getKClass1(jsClass)\n                        }\n                    }\n                }\n            }\n        }\n    }\n\nunsafeCast<KClass<T>>()\n\n@JsName("getKClass1")\ninternal fun <T : Any> getKClass1(jClass:
JsClass<T>): KClass<T> {\n    if (jClass === js("String")) return
PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n    val metadata = jClass.asDynamic().`$metadata$\`\n\n
return if (metadata
    != null) {\n        if (metadata.`$kClass$` == null) {\n            val kClass = SimpleKClassImpl(jClass)\n\n
metadata.`$kClass$` = kClass\n            kClass\n        } else {\n            metadata.`$kClass$`\n        }\n    } else {\n
SimpleKClassImpl(jClass)\n    }\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the JavaScript [RegExp
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\n\n
*\n\n@Suppress("NOT_DOCUMENTED")\npublic external class RegExp(pattern: String, flags: String? =
definedExternally) {\n    public fun test(str: String): Boolean\n    public fun exec(str: String): RegExpMatch?\n\n
    public override fun toString(): String\n\n    /**\n     * The lastIndex is a read/write integer property
of regular expressions that specifies the index at which to start the next match.\n     *\n     * public var lastIndex:
Int\n\n     * public val global: Boolean\n     * public val ignoreCase: Boolean\n     * public val multiline:

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Boolean\n}\n\n/**\n * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will  
match starting with the beginning of the input string.\n */\npublic fun RegExp.reset() {\n    lastIndex = 0\n}\n\n//  
TODO: Inherit from array or introduce asArray() extension\n/**\n * Represents the return value of  
[RegExp.exec].\n */\n@Suppress(\\"NOT_DOCUMENTED\\")\npublic external interface RegExpMatch {\n    public  
val index: Int\n    public val input: String\n    public val length: Int\n}\n\n/**\n * Returns the entire text matched by  
[RegExp.exec] if the [index] parameter is 0, or the text matched by the capturing parenthesis\n * at the given  
index.\n */\npublic inline operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts  
the result of [RegExp.exec] to an array where the first element contains the entire matched text and each  
subsequent\n * element is the text matched by each capturing parenthesis.\n */\npublic inline fun  
RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out String?>>()\n\n"/*\n * Copyright 2010-2018  
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the  
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.sequences\n\ninternal  
actual class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>): Sequence<T> {\n    private  
var sequenceRef: Sequence<T>? = sequence\n\n    actual override fun iterator(): Iterator<T> {\n        val sequence =  
sequenceRef ?: throw IllegalStateException(\\"This sequence can be consumed only once.\")\n        sequenceRef =  
null\n        return sequence.iterator()\n    }\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin  
Programming  
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the  
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n\n@SinceKotlin("1.5")\npublic actual enum class  
CharCategory(internal val value: Int, public actual val code: String) {\n    /**\n     * General category \\\"Cn\\\" in the  
Unicode specification.\n     */\n    UNASSIGNED(0, \\\"Cn\\\"),\n\n    /**\n     * General category \\\"Lu\\\" in the Unicode  
specification.\n     */\n    UPPER_CASE_LETTER(1, \\\"Lu\\\"),\n\n    /**\n     * General category \\\"Ll\\\" in the Unicode  
specification.\n     */\n    LOWER_CASE_LETTER(2, \\\"Ll\\\"),\n\n    /**\n     * General category \\\"Lt\\\" in the Unicode  
specification.\n     */\n    TITLE_CASE_LETTER(3, \\\"Lt\\\"),\n\n    /**\n     * General category \\\"Lm\\\" in the Unicode  
specification.\n     */\n    MODIFIER_LETTER(4, \\\"Lm\\\"),\n\n    /**\n     * General category \\\"Lo\\\" in the Unicode  
specification.\n     */\n    OTHER_LETTER(5, \\\"Lo\\\"),\n\n    /**\n     * General  
category \\\"Mn\\\" in the Unicode specification.\n     */\n    NON_SPACING_MARK(6, \\\"Mn\\\"),\n\n    /**\n     *  
General category \\\"Me\\\" in the Unicode specification.\n     */\n    ENCLOSING_MARK(7, \\\"Me\\\"),\n\n    /**\n     *  
General category \\\"Mc\\\" in the Unicode specification.\n     */\n    COMBINING_SPACING_MARK(8, \\\"Mc\\\"),\n\n    /**\n     *  
General category \\\"Nd\\\" in the Unicode specification.\n     */\n    DECIMAL_DIGIT_NUMBER(9,  
\\\"Nd\\\"),\n\n    /**\n     *  
General category \\\"NI\\\" in the Unicode specification.\n     */\n    LETTER_NUMBER(10,  
\\\"NI\\\"),\n\n    /**\n     *  
General category \\\"No\\\" in the Unicode specification.\n     */\n    OTHER_NUMBER(11,  
\\\"No\\\"),\n\n    /**\n     *  
General category \\\"Zs\\\" in the Unicode specification.\n     */\n    SPACE_SEPARATOR(12,  
\\\"Zs\\\"),\n\n    /**\n     *  
General category \\\"Zl\\\" in the Unicode specification.\n     */\n    LINE_SEPARATOR(13,  
\\\"Zl\\\"),\n\n    /**\n     *  
General category \\\"Zp\\\" in the Unicode specification.\n     */\n    PARAGRAPH_SEPARATOR(14,  
\\\"Zp\\\"),\n\n    /**\n     *  
General category \\\"Cc\\\" in the Unicode specification.\n     */\n    CONTROL(15,  
\\\"Cc\\\"),\n\n    /**\n     *  
General category \\\"Cf\\\" in the Unicode specification.\n     */\n    FORMAT(16, \\\"Cf\\\"),\n\n    /**\n     *  
General category \\\"Co\\\" in the Unicode specification.\n     */\n    PRIVATE_USE(18, \\\"Co\\\"),\n\n    /**\n     *  
General category \\\"Cs\\\" in the Unicode specification.\n     */\n    SURROGATE(19, \\\"Cs\\\"),\n\n    /**\n     *  
General category \\\"Pd\\\" in the Unicode specification.\n     */\n    DASH_PUNCTUATION(20, \\\"Pd\\\"),\n\n    /**\n     *  
General category \\\"Ps\\\" in the Unicode specification.\n     */\n    START_PUNCTUATION(21, \\\"Ps\\\"),\n\n    /**\n     *  
General category \\\"Pe\\\" in the Unicode specification.\n     */\n    END_PUNCTUATION(22, \\\"Pe\\\"),\n\n    /**\n     *  
General category \\\"Pc\\\" in the Unicode specification.\n     */\n    CONNECTOR_PUNCTUATION(23,  
\\\"Pc\\\"),\n\n    /**\n     *  
General category \\\"Po\\\" in the Unicode specification.\n     */\n    OTHER_PUNCTUATION(24, \\\"Po\\\"),\n\n    /**\n     *  
General category \\\"Sm\\\" in the Unicode  
specification.\n     */\n    MATH_SYMBOL(25, \\\"Sm\\\"),\n\n    /**\n     *  
General category \\\"Sc\\\" in the Unicode
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specification.\n *^n CURRENCY_SYMBOL(26, \"Sc\"),\n\n /**\n * General category \"Sk\" in the
Unicode specification.\n *^n MODIFIER_SYMBOL(27, \"Sk\"),\n\n /**\n * General category \"So\" in the
Unicode specification.\n *^n OTHER_SYMBOL(28, \"So\"),\n\n /**\n * General category \"Pi\" in the
Unicode specification.\n *^n INITIAL_QUOTE_PUNCTUATION(29, \"Pi\"),\n\n /**\n * General
category \"Pf\" in the Unicode specification.\n *^n FINAL_QUOTE_PUNCTUATION(30, \"Pf\");\n\n /**\n
* Returns `true` if [char] character belongs to this category.\n *^n public actual operator fun contains(char:
Char): Boolean = char.getCategoryValue() == this.value\n\n companion object {\n internal fun
valueOf(category: Int): CharCategory =\n when (category) {\n in 0..16 -> values()[category]\n
in 18..30 -> values()[category - 1]\n else -> throw IllegalArgumentException(\"Category #${category} is
not defined.\")\n }\n }\n\n\", \"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * The exception thrown when a character encoding
or decoding error occurs.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual open class CharacterCodingException(message: String?) : Exception(message) {\n actual constructor() :
this(null)\n\n\", \"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * A mutable sequence of characters.\n
*\n * String builder can be used to efficiently perform multiple string manipulation operations.\n */\n\npublic actual
class StringBuilder actual constructor(content: String) : Appendable, CharSequence {\n /**\n * Constructs an
empty string builder with the specified initial [capacity].\n */\n * In Kotlin/JS implementation of StringBuilder
the initial capacity has no effect on the further performance of operations.\n */\n actual constructor(capacity:
Int) : this() {\n }\n\n /**\n * Constructs a string builder that contains the same characters as the specified [content]
char sequence.\n */\n actual constructor(content: CharSequence) : this(content.toString()) {\n }\n\n /**\n * Constructs an
empty string builder.\n */\n actual constructor() : this(\"\")\n\n private var string: String = if (content !==
undefined) content else \"\"\n\n actual override
val length: Int\n get() = string.asDynamic().length\n\n actual override fun get(index: Int): Char =\n
string.getOrNull(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length\") }\n\n actual
override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\n\n
actual override fun append(value: Char): StringBuilder {\n string += value\n return this\n }\n\n actual
override fun append(value: CharSequence?): StringBuilder {\n string += value.toString()\n return this\n
}\n\n actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value ?: \"null\", startIndex, endIndex)\n\n /**\n * Reverses the contents of this string builder
and returns this instance.\n */\n * Surrogate pairs included in this string builder are treated as single
characters.\n * Therefore, the order of the high-low
surrogates is never reversed.\n */\n * Note that the reverse operation may produce new surrogate pairs that were
unpaired low-surrogates and high-surrogates before the operation.\n * For example, reversing
`\"\\uDC00\\uD800\"` produces `\"\\uD800\\uDC00\"` which is a valid surrogate pair.\n */\n actual fun
reverse(): StringBuilder {\n var reversed = \"\"\n var index = string.length - 1\n while (index >= 0) {\n
val low = string[index--]\n if (low.isLowSurrogate() && index >= 0) {\n val high =
string[index--]\n if (high.isHighSurrogate()) {\n reversed = reversed + high + low\n }
else {\n reversed = reversed + low + high\n }\n } else {\n reversed += low\n
}\n }\n string = reversed\n return this\n }\n\n /**\n * Appends the string representation of the
specified object
[value] to this string builder and returns this instance.\n */\n * The overall effect is exactly as if the [value] were
converted to a string by the `value.toString()` method,\n * and then that string was appended to this string
builder.\n */\n actual fun append(value: Any?): StringBuilder {\n string += value.toString()\n return
this\n }\n\n /**\n * Appends the string representation of the specified boolean [value] to this string builder and
returns this instance.\n */\n * The overall effect is exactly as if the [value] were converted to a string by the

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`value.toString()` method,\n    * and then that string was appended to this string builder.\n    */\n
@SinceKotlin("1.3")\n    actual fun append(value: Boolean): StringBuilder {\n        string += value\n        return this\n    }\n    /**\n     * Appends characters in the specified character array [value] to this string builder and returns this instance.\n     */\n     * Characters are appended in order, starting at the index 0.\n    */\n    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun append(value: CharArray): StringBuilder {\n        string += value.concatToString()\n        return this\n    }\n    @Deprecated("Provided for binary compatibility.", level = DeprecationLevel.HIDDEN)\n    fun append(value: String): StringBuilder = append(value)\n    /**\n     * Appends the specified string [value] to this string builder and returns this instance.\n     */\n     * If [value] is `null`, then the four characters `\\null\\` are appended.\n    */\n    @SinceKotlin("1.3")\n    actual fun append(value: String?): StringBuilder {\n        this.string += value ?: "\\null"\n        return this\n    }\n    /**\n     * Returns the current capacity of this string builder.\n     */\n     * The capacity is the maximum length this string builder can have before an allocation occurs.\n    */\n     * In Kotlin/JS implementation of StringBuilder the value returned from this method may not indicate the actual size of the backing storage.\n    */\n    @SinceKotlin("1.3")\n    // @ExperimentalStdlibApi\n    @Deprecated("Obtaining StringBuilder capacity is not supported in JS and common code.", level = DeprecationLevel.ERROR)\n    actual fun capacity(): Int = length\n    /**\n     * Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n     */\n     * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n     * Otherwise, this method takes no action and simply returns.\n    */\n     * In Kotlin/JS implementation of StringBuilder the size of the backing storage is not extended to comply the given [minimumCapacity],\n     * thus calling this method has no effect on the further performance of operations.\n    */\n    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun ensureCapacity(minimumCapacity: Int) {\n    }\n    /**\n     * Returns the index within this string builder of the first occurrence of the specified [string].\n     */\n     * Returns `-1` if the specified [string] does not occur in this string builder.\n    */\n    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun indexOf(string: String): Int = this.string.asDynamic().indexOf(string)\n    /**\n     * Returns the index within this string builder of the first occurrence of the specified [string],\n     */\n     * starting at the specified [startIndex].\n     * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n    */\n    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun indexOf(string: String, startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n    /**\n     * Returns the index within this string builder of the last occurrence of the specified [string].\n     */\n     * The last occurrence of empty string `""` is considered to be at the index equal to `this.length`.\n     * Returns `-1` if the specified [string] does not occur in this string builder.\n    */\n    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n    /**\n     * Returns the index within this string builder of the last occurrence of the specified [string],\n     */\n     * starting from the specified [startIndex] toward the beginning.\n     * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n    */\n    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun lastIndexOf(string: String, startIndex: Int): Int {\n        if (string.isEmpty() && startIndex < 0) return -1\n        return this.string.asDynamic().lastIndexOf(string, startIndex)\n    }\n    /**\n     * Inserts the string representation of the specified boolean [value] into this string builder at the specified [index] and returns this instance.\n     */\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n     * and then that string was inserted into this string builder at the specified [index].\n     * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n    */\n    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: Boolean): StringBuilder {\n        AbstractList.checkPositionIndex(index, length)\n        string = string.substring(0, index) + value +

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string.substring(index)\n    return this\n    }\n\n /**\n * Inserts the specified character [value] into this string
builder at the specified [index] and
returns this instance.\n * \n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than
the length of this string builder.\n * ^\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: Char): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) + value +
string.substring(index)\n    return this\n    }\n\n /**\n * Inserts characters in the specified character array
[value] into this string builder at the specified [index] and returns this instance.\n * \n * The inserted characters
go in same order as in the [value] character array, starting at [index].\n * \n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n * ^\n
@SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value:
CharArray): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\n    string =
string.substring(0, index) + value.concatToString() + string.substring(index)\n    return this\n    }\n\n /**\n *
Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and
returns this instance.\n * \n * The inserted characters go in the same order as in the [value] character sequence,
starting at [index].\n * \n * @param index the position in this string builder to insert at.\n * @param value the
character sequence from which characters are inserted. If [value] is `null`, then the four characters `"\null"` are
inserted.\n * \n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n * ^\n @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: CharSequence?):
StringBuilder
{\n    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) +
value.toString() + string.substring(index)\n    return this\n    }\n\n /**\n * Inserts the string representation of
the specified object [value] into this string builder at the specified [index] and returns this instance.\n * \n * The
overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then
that string was inserted into this string builder at the specified [index].\n * \n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n * ^\n
@SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value:
Any?): StringBuilder {\n    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0,
index) + value.toString() + string.substring(index)\n
return this\n    }\n\n @Deprecated("Provided for binary compatibility.", level =
DeprecationLevel.HIDDEN)\n    fun insert(index: Int, value: String): StringBuilder = insert(index, value)\n\n /**\n
* Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n * \n * If
[value] is `null`, then the four characters `"\null"` are inserted.\n * \n * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.\n * ^\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n    actual fun insert(index: Int, value: String?): StringBuilder
{\n    AbstractList.checkPositionIndex(index, length)\n\n    val toInsert = value ?: "\null"\n    this.string =
this.string.substring(0, index) + toInsert + this.string.substring(index)\n    return this\n    }\n\n /**\n * Sets
the length of this string builder to the specified [newLength].\n
*\n * If the [newLength] is less than the current length, it is changed to the specified [newLength].\n *
Otherwise, null characters '\u0000' are appended to this string builder until its length is less than the [newLength].\n
*\n * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n *
Therefore, increasing length of this string builder and then updating each character by index may slow down your
program.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less
than zero.\n * ^\n @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    actual fun
setLength(newLength: Int) {\n    if (newLength < 0) {\n        throw IllegalArgumentException("Negative new
length: $newLength.")\n    }\n\n    if (newLength <= length) {\n        string = string.substring(0,
newLength)\n    } else {\n        for (i in length

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until newLength) {\n      string += "\u0000"\n    }\n  }\n  }\n  /**\n   * Returns a new [String]
that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n   *\n
   * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string
builder.\n   *\n   * @SinceKotlin("1.4")\n   * @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun
substring(startIndex: Int): String {\n    AbstractList.checkPositionIndex(startIndex, length)\n    return
string.substring(startIndex)\n  }\n  /**\n   * Returns a new [String] that contains characters in this string builder
at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n   *\n   * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
`startIndex > endIndex`.\n   *\n   * @SinceKotlin("1.4")\n
   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun substring(startIndex: Int, endIndex: Int): String
{\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return string.substring(startIndex,
endIndex)\n  }\n  /**\n   * Attempts to reduce storage used for this string builder.\n   *\n   * If the backing
storage of this string builder is larger than necessary to hold its current contents,\n   * then it may be resized to
become more space efficient.\n   * Calling this method may, but is not required to, affect the value of the [capacity]
property.\n   *\n   * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal
to the length of the string builder.\n   *\n   * @SinceKotlin("1.4")\n
   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun trimToSize() {\n  }\n  override fun toString():
String = string\n  /**\n   * Clears the content of this string
builder making it empty and returns this instance.\n   *\n   * @sample samples.text.Strings.clearStringBuilder\n
   *\n   * @SinceKotlin("1.3")\n   public fun clear(): StringBuilder {\n    string = ""\n    return this\n  }\n
  /**\n   * Sets the character at the specified [index] to the specified [value].\n   *\n   * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n   *\n   * @SinceKotlin("1.4")\n
   @WasExperimental(ExperimentalStdlibApi::class)\n   public operator fun set(index: Int, value: Char) {\n
AbstractList.checkElementIndex(index, length)\n    string = string.substring(0, index) + value +
string.substring(index + 1)\n  }\n  /**\n   * Replaces characters in the specified range of this string builder with
characters in the specified string [value] and returns this instance.\n   *\n   * @param startIndex the beginning
(inclusive) of the range to replace.\n   * @param endIndex the
end (exclusive) of the range to replace.\n   * @param value the string to replace with.\n   *\n   * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length
of this string builder, or `startIndex > endIndex`.\n   *\n   * @SinceKotlin("1.4")\n
   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun setRange(startIndex: Int, endIndex: Int, value:
String): StringBuilder {\n    checkReplaceRange(startIndex, endIndex, length)\n    this.string =
this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n    return this\n  }\n  private fun
checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n    if (startIndex < 0 || startIndex > length) {\n
    throw IndexOutOfBoundsException("startIndex: $startIndex, length: $length")\n    }\n    if (startIndex >
endIndex) {\n    throw IllegalArgumentException("startIndex($startIndex) >
endIndex($endIndex)")\n    }\n  }\n  /**\n   * Removes the character at the specified [index] from this
string builder and returns this instance.\n   *\n   * If the `Char` at the specified [index] is part of a supplementary
code point, this method does not remove the entire supplementary character.\n   *\n   * @param index the index of
`Char` to remove.\n   *\n   * @throws IndexOutOfBoundsException if [index] is out of bounds of this string
builder.\n   *\n   * @SinceKotlin("1.4")\n   * @WasExperimental(ExperimentalStdlibApi::class)\n   public fun
deleteAt(index: Int): StringBuilder {\n    AbstractList.checkElementIndex(index, length)\n    string =
string.substring(0, index) + string.substring(index + 1)\n    return this\n  }\n  /**\n   * Removes characters in
the specified range from this string builder and returns this instance.\n   *\n   * @param startIndex the beginning
(inclusive) of the range to remove.\n   * @param endIndex
the end (exclusive) of the range to remove.\n   *\n   * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >
endIndex`.\n   *\n   * @SinceKotlin("1.4")\n   * @WasExperimental(ExperimentalStdlibApi::class)\n   public fun

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deleteRange(startIndex: Int, endIndex: Int): StringBuilder {\n
    checkReplaceRange(startIndex, endIndex,
length)\n\n
    string = string.substring(0, startIndex) + string.substring(endIndex)\n
    return this\n
}\n\n
/**\n
 * Copies characters from this string builder into the [destination] character array.\n
 * \n
 * @param
destination the array to copy to.\n
 * @param destinationOffset the position in the array to copy to, 0 by default.\n
 * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n
 * @param endIndex the end
(exclusive) of the range to copy, length of this string builder by default.\n
 * \n
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is
out of range of this string builder indices or when `startIndex > endIndex`.\n
 * @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified
[destinationOffset],\n
 * or when that index is out of the [destination] array indices range.\n
 */\n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun
toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n
AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)\n\n
    var dstIndex = destinationOffset\n
    for (index in startIndex until endIndex) {\n
        destination[dstIndex++]
= string[index]\n
    }\n
}\n\n
/**\n
 * Appends characters in a subarray of the specified character array [value] to this string builder and returns this
instance.\n
 * \n
 * Characters are appended in order, starting at specified [startIndex].\n
 * \n
 * @param value
the array from which characters are appended.\n
 * @param startIndex the beginning (inclusive) of the subarray to
append.\n
 * @param endIndex the end (exclusive) of the subarray to append.\n
 * \n
 * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] array indices or when `startIndex > endIndex`.\n
 * \n
 * @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun appendRange(value: CharArray, startIndex: Int,
endIndex: Int): StringBuilder {\n
    string += value.concatToString(startIndex, endIndex)\n
    return this\n
}\n\n
/**\n
 * Appends a subsequence of the specified character sequence [value] to this
string builder and returns this instance.\n
 * \n
 * @param value the character sequence from which a
subsequence is appended.\n
 * @param startIndex the beginning (inclusive) of the subsequence to append.\n
 *
 * @param endIndex the end (exclusive) of the subsequence to append.\n
 * \n
 * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n
 * \n
 * @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun appendRange(value: CharSequence, startIndex:
Int, endIndex: Int): StringBuilder {\n
    val stringCsq = value.toString()\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n
    string +=
stringCsq.substring(startIndex, endIndex)\n
    return this\n
}\n\n
/**\n
 * Inserts characters in a subarray of
the specified character array [value] into this string
builder at the specified [index] and returns this instance.\n
 * \n
 * The inserted characters go in same order as in
the [value] array, starting at [index].\n
 * \n
 * @param index the position in this string builder to insert at.\n
 *
 * @param value the array from which characters are inserted.\n
 * @param startIndex the beginning (inclusive) of
the subarray to insert.\n
 * @param endIndex the end (exclusive) of the subarray to insert.\n
 * \n
 * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] array indices or when `startIndex > endIndex`.\n
 * @throws IndexOutOfBoundsException if [index] is
less than zero or greater than the length of this string builder.\n
 * \n
 * @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
public fun insertRange(index: Int, value: CharArray,
startIndex: Int, endIndex: Int): StringBuilder {\n
    AbstractList.checkPositionIndex(index,
this.length)\n\n
    string = string.substring(0, index) + value.concatToString(startIndex, endIndex) +
string.substring(index)\n
    return this\n
}\n\n
/**\n
 * Inserts characters in a subsequence of the specified
character sequence [value] into this string builder at the specified [index] and returns this instance.\n
 * \n
 * The
inserted characters go in the same order as in the [value] character sequence, starting at [index].\n
 * \n
 *

```

@param index the position in this string builder to insert at.\n \* @param value the character sequence from which a subsequence is inserted.\n \* @param startIndex the beginning (inclusive) of the subsequence to insert.\n \* @param endIndex the end (exclusive) of the subsequence to insert.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n \*

```

@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {\n     AbstractList.checkPositionIndex(index, length)\n     val stringCsq = value.toString()\n     AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n     string = string.substring(0, index) + stringCsq.substring(startIndex, endIndex) + string.substring(index)\n     return this\n }
  
```

\* Clears the content of this string builder making it empty and returns this instance.\n \* @sample samples.text.Strings.clearStringBuilder\n \*

```

@SinceKotlin("1.3")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.clear(): StringBuilder = this.clear()
  
```

Sets the character at the specified [index] to the specified [value].\n \* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n \*

```

@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline operator fun StringBuilder.set(index: Int, value: Char) = this.set(index, value)
  
```

\* Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n \* @param startIndex the beginning (inclusive) of the range to replace.\n \* @param endIndex the end (exclusive) of the range to replace.\n \* @param value the string to replace with.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n \*

```

@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder = this.setRange(startIndex, endIndex, value)
  
```

\* Removes the character at the specified [index] from this string builder and returns this instance.\n \* If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n \* @param index the index of `Char` to remove.\n \* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n \*

```

@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)
  
```

\* Removes characters in the specified range from this string builder and returns this instance.\n \* @param startIndex the beginning (inclusive) of the range to remove.\n \* @param endIndex the end (exclusive) of the range to remove.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n \*

```

@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder = this.deleteRange(startIndex, endIndex)
  
```

\* Copies characters from this string builder into the [destination] character array.\n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n \* @throws IndexOutOfBoundsException

or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], \n \* or when that index is out of the [destination] array indices range. \n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA\nDOWED_BY_MEMBER", "NOTHING_TO_INLINE",\n"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun\nStringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =\nthis.length) =\n    this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/**\n * Appends\n characters in a subarray of the specified character array [value] to this string builder and returns this instance. \n * \n * Characters are appended in order, starting at specified [startIndex]. \n\n * \n * @param value the array from which characters are appended. \n * @param startIndex the beginning\n (inclusive) of the subarray to append. \n * @param endIndex the end (exclusive) of the subarray to append. \n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of\n range of the [value] array indices or when `startIndex > endIndex`. \n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA\nDOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun\nStringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\nthis.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a subsequence of the specified character\n sequence [value] to this string builder and returns this instance. \n * \n * @param value the character sequence from\n which a subsequence is appended. \n * @param startIndex the beginning (inclusive) of the subsequence to append. \n * \n * @param endIndex the end (exclusive) of the subsequence to append. \n * \n * @throws\n IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the\n [value] character sequence indices or when `startIndex > endIndex`. \n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA\nDOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun\nStringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\nthis.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subarray of the specified character\n array [value] into this string builder at the specified [index] and returns this instance. \n * \n * The inserted characters\n go in same order as in the [value] array, starting at [index]. \n * \n * @param index the position in this string builder\n to insert at. \n * @param value the array from which characters are inserted. \n * @param startIndex the\n beginning (inclusive) of the subarray to insert. \n * @param endIndex the end (exclusive) of the subarray to insert. \n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out\n of range of the [value] array indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if\n [index] is less than zero or greater than the length of this string builder. \n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA\nDOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun\nStringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\nthis.insertRange(index, value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subsequence of the specified\n character sequence [value] into this string builder at the specified [index] and returns this instance. \n * \n * The\n inserted characters go in the same order as in the [value] character\n sequence, starting at [index]. \n * \n * @param index the position in this string builder to insert at. \n * @param value\n the character sequence from which a subsequence is inserted. \n * @param startIndex the beginning (inclusive) of the\n subsequence to insert. \n * @param endIndex the end (exclusive) of the subsequence to insert. \n * \n * @throws\n IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the\n [value] character sequence indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if\n [index] is less than zero or greater than the length of this string builder. \n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
```

```

DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\n/**\n *
Returns `true` if the content of this string is equal to the word "true", ignoring case, and `false` otherwise.\n
*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\n@kotlin.internal.InlineOnly\npublic actual inline
fun String.toBoolean(): Boolean = this.toBoolean()\n\n/**\n * Returns `true` if this string is not `null` and its content
is equal to the word "true", ignoring case, and `false` otherwise.\n */\n * There are also strict versions of the
function available on non-nullable String, [toBooleanStrict] and [toBooleanStrictOrNull].\n
*/\n@SinceKotlin("1.4")\npublic actual fun String?.toBoolean(): Boolean = this != null && this.lowercase() ==
"true"\n\n/**\n * Parses the string as
a signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toByte(): Byte = toByteOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a
[Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toShort(): Short = toShortOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to
number conversion.\n */\npublic actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?:
numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun
String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and
returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n *
@throws IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n */\npublic
actual fun String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string
as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation
of a number.\n */\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\n\n/**\n *
Parses the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is
not a valid representation of a number.\n * @throws IllegalArgumentOutOfRangeException when [radix] is not a valid radix for
string to number conversion.\n */\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?:
numberFormatError(this)\n\n/**\n * Parses the string as a [Double] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun
String.toDouble(): Double = +(this.asDynamic()).unsafeCast<Double>().also {\n    if (it.isNaN() && !this.isNaN()
|| it == 0.0 && this.isBlank())\n        numberFormatError(this)\n}\n\n/**\n * Parses the string as a [Float] number
and returns the result.\n * @throws NumberFormatException if the string is not a valid representation
of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()\n\n/**\n * Parses the string as a [Double] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n */\npublic actual fun String.toDoubleOrNull(): Double? =
+(this.asDynamic()).unsafeCast<Double>().takeIf {\n    !(it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank())\n}\n\n/**\n * Parses the string as a [Float] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun

```

```

String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n/**\n * Returns a string representation of this [Byte] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Short] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Int] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin("1.2")\npublic actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\n\nprivate fun String.isNaN(): Boolean = when (this.lowercase()) {\n    "nan", "+nan", "-nan" -> true\n    else -> false\n}\n\n/**\n * Checks whether the given [radix] is valid radix for string to number and number to string conversion.\n */\n@PublishedApi\ninternal actual fun checkRadix(radix: Int): Int {\n    if (radix !in 2..36) {\n        throw IllegalArgumentException("radix $radix was not in valid range 2..36")\n    }\n    return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\n    char >= '0' && char <= '9' -> char - '0'\n    char >= 'A' && char <= 'Z' -> char - 'A' + 10\n    char >= 'a' && char <= 'z' -> char - 'a' + 10\n    char < '\u0080' -> -1\n    char >= '\uFF21' && char <= '\uFF3A' -> char - '\uFF21' + 10 // full-width latin capital letter\n    char >= '\uFF41' && char <= '\uFF5A' -> char - '\uFF41' + 10 // full-width latin small letter\n    else -> char.digitToIntImpl()\n}.let { if (it >= radix) -1 else it }\n\n", "\n" * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Provides enumeration values to use to set regular expression options.\n */\npublic actual enum class RegexOptions(val value: String) {\n    /** Enables case-insensitive matching. */\n    IGNORE_CASE("i"),\n    /** Enables multiline mode. */\n    MULTILINE("m")\n}\n\nprivate fun Iterable<RegexOption>.toFlags(prepend: String): String = joinToString("\n", prefix = prepend) { it.value }\n\n/**\n * Represents the results from a single capturing group within a [MatchResult] of [Regex].\n * @param value The value of captured group.\n */\npublic actual data class MatchGroup(actual val value: String)\n\n/**\n * Represents a compiled regular expression.\n * Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.\n * For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\n * and [http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n * Note that `RegExp` objects under the hood are constructed with [the "u" flag](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp/unicode)\n * that enables Unicode-related features in regular expressions. This also makes the pattern syntax more strict,\n * for example, prohibiting unnecessary escape sequences.\n * @constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].\n */\npublic actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\n    /** Creates a regular expression from the specified [pattern] string and the specified single [option]. */\n    public actual constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))\n    /** Creates a regular expression from the specified [pattern] string and the default options. */\n    public actual constructor(pattern: String) : this(pattern, emptySet())\n    /** The pattern string of this regular expression. */\n    public actual val pattern: String = pattern\n    /** The set of options that were used to create this regular expression. */\n    public actual val options: Set<RegexOption> = options.toSet()\n    private val nativePattern: RegExp = RegExp(pattern, options.toFlags("gu"))\n    private var nativeStickyPattern: RegExp? = null\n    private fun initStickyPattern():

```

```

RegExp = \n      nativeStickyPattern ? : RegExp(pattern, options.toFlags("\`yu\`")).also { nativeStickyPattern = it }\n\n
  private var nativeMatchesEntirePattern: RegExp? = null\n  private fun initMatchesEntirePattern(): RegExp = \n
  nativeMatchesEntirePattern ? : run {\n      if (pattern.startsWith(`^`)\n
  && pattern.endsWith(`$`))\n          nativePattern\n          else\n          return
  RegExp(`^${pattern.trimStart(`^`).trimEnd(`$`)}`$, options.toFlags("\`gu\`"))\n      }.also {
  nativeMatchesEntirePattern = it }\n\n\n  /** Indicates whether the regular expression matches the entire [input].
  *\n  * public actual infix fun matches(input: CharSequence): Boolean {\n      nativePattern.reset()\n      val match
  = nativePattern.exec(input.toString())\n      return match != null && match.index == 0 && nativePattern.lastIndex
  == input.length\n  }\n\n  /** Indicates whether the regular expression can find at least one match in the specified
  [input]. *\n  * public actual fun containsMatchIn(input: CharSequence): Boolean {\n      nativePattern.reset()\n
  return nativePattern.test(input.toString())\n  }\n\n  @SinceKotlin("1.5")\n  @ExperimentalStdlibApi\n  public
  actual fun matchesAt(input: CharSequence, index: Int): Boolean {\n      if (index < 0
  || index > input.length) {\n          throw IndexOutOfBoundsException("\`index out of bounds: $index, input length:
  ${input.length}`")\n      }\n      val pattern = initStickyPattern()\n      pattern.lastIndex = index\n      return
  pattern.test(input.toString())\n  }\n\n  /**\n  * Returns the first match of a regular expression in the [input],
  beginning at the specified [startIndex].\n  *\n  * @param startIndex An index to start search with, by default 0.
  Must be not less than zero and not greater than `input.length`\n  * @return An instance of [MatchResult] if
  match was found or `null` otherwise.\n  * @throws IndexOutOfBoundsException if [startIndex] is less than zero
  or greater than the length of the [input] char sequence.\n  * @sample samples.text.Regexps.find\n  *\n  * @Suppress("\`ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\`")\n  public actual fun find(input:
  CharSequence, startIndex: Int = 0): MatchResult? {\n      if (startIndex < 0 || startIndex
  > input.length) {\n          throw IndexOutOfBoundsException("\`Start index out of bounds: $startIndex, input
  length: ${input.length}`")\n      }\n      return nativePattern.findNext(input.toString(), startIndex, nativePattern)\n
  }\n\n  /**\n  * Returns a sequence of all occurrences of a regular expression within the [input] string, beginning
  at the specified [startIndex].\n  *\n  * @throws IndexOutOfBoundsException if [startIndex] is less than zero or
  greater than the length of the [input] char sequence.\n  *\n  * @sample samples.text.Regexps.findAll\n  *\n  * @Suppress("\`ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\`")\n  public actual fun findAll(input:
  CharSequence, startIndex: Int = 0): Sequence<MatchResult> {\n      if (startIndex < 0 || startIndex > input.length)
  {\n          throw IndexOutOfBoundsException("\`Start index out of bounds: $startIndex, input length:
  ${input.length}`")\n      }\n      return generateSequence({ find(input, startIndex)
  }, { match -> match.next() })\n  }\n\n  /**\n  * Attempts to match the entire [input] CharSequence against the
  pattern.\n  *\n  * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.\n  *\n  * public actual fun matchEntire(input: CharSequence): MatchResult? = \n
  initMatchesEntirePattern().findNext(input.toString(), 0, nativePattern)\n\n  @SinceKotlin("1.5")\n  @ExperimentalStdlibApi\n  public actual fun matchAt(input: CharSequence, index: Int): MatchResult? {\n      if
  (index < 0 || index > input.length) {\n          throw IndexOutOfBoundsException("\`index out of bounds: $index,
  input length: ${input.length}`")\n      }\n      return initStickyPattern().findNext(input.toString(), index,
  nativePattern)\n  }\n\n  /**\n  * Replaces all occurrences of this regular expression in the specified [input]
  string with specified [replacement] expression.\n  *\n  * The replacement string may contain references
  to the captured groups during a match. Occurrences of `$index`\n  * in the replacement string will be substituted
  with the subsequences corresponding to the captured groups with the specified index.\n  * The first digit after `$` is
  always treated as part of group reference. Subsequent digits are incorporated\n  * into `index` only if they would
  form a valid group reference. Only the digits '0'..'9' are considered as potential components\n  * of the group
  reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.\n  *\n  * Backslash character `\\` can be used to include the succeeding character as a literal in the replacement string, e.g,
  `\\$` or `\\\\`. \n  * [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.\n
  *\n  * Note that referring named capturing groups by name is currently not supported in Kotlin/JS.\n  * However,
  you can still refer them by index.\n

```

```

*\n * @param input the char sequence to find matches of this regular expression in\n * @param replacement
the expression to replace found matches with\n * @return the result of replacing each occurrence of this regular
expression in [input] with the result of evaluating the [replacement] expression\n * @throws RuntimeException if
[replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist\n */\n
public actual fun replace(input: CharSequence, replacement: String): String {\n    if (!replacement.contains("\\\\")
&& !replacement.contains('$')) {\n        return input.toString().nativeReplace(nativePattern, replacement)\n
}\n    return replace(input) { substituteGroupRefs(it, replacement) }\n }\n\n /**\n * Replaces all
occurrences of this regular expression in the specified [input] string with the result of\n * the given function
[transform] that takes [MatchResult] and returns a string
to be used as a\n * replacement for that match.\n */\n public actual fun replace(input: CharSequence,
transform: (MatchResult) -> CharSequence): String {\n    var match = find(input)\n    if (match == null) return
input.toString()\n\n    var lastStart = 0\n    val length = input.length\n    val sb = StringBuilder(length)\n
do {\n        val foundMatch = match!\n        sb.append(input, lastStart, foundMatch.range.start)\n
sb.append(transform(foundMatch))\n        lastStart = foundMatch.range.endInclusive + 1\n        match =
foundMatch.next()\n    } while (lastStart < length && match != null)\n\n    if (lastStart < length) {\n
sb.append(input, lastStart, length)\n    }\n\n    return sb.toString()\n }\n\n /**\n * Replaces the first
occurrence of this regular expression in the specified [input] string with specified [replacement] expression.\n */\n
* The replacement string may contain
references to the captured groups during a match. Occurrences of `$index`\n * in the replacement string will be
substituted with the subsequences corresponding to the captured groups with the specified index.\n * The first
digit after '$' is always treated as part of group reference. Subsequent digits are incorporated\n * into `index` only
if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components\n * of
the group reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole
match.\n *\n * Backslash character '\\' can be used to include the succeeding character as a literal in the
replacement string, e.g. `\\$` or `\\\\`. \n * [Regex.escapeReplacement] can be used if [replacement] have to be
treated as a literal string.\n *\n * Note that referring named capturing groups by name is not supported currently
in Kotlin/JS.\n * However, you can still refer them
by index.\n *\n * @param input the char sequence to find a match of this regular expression in\n * @param
replacement the expression to replace the found match with\n * @return the result of replacing the first
occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression\n *
@throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or
`index` does not exist\n */\n public actual fun replaceFirst(input: CharSequence, replacement: String): String {\n
    if (!replacement.contains("\\\\") && !replacement.contains('$')) {\n        val nonGlobalOptions =
options.toFlags("\\u")\n        return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions),
replacement)\n    }\n\n    val match = find(input) ?: return input.toString()\n\n    return buildString {\n
append(input.substring(0, match.range.first))\n        append(substituteGroupRefs(match,
replacement))\n        append(input.substring(match.range.last + 1, input.length))\n    }\n }\n\n /**\n *
Splits the [input] CharSequence to a list of strings around matches of this regular expression.\n *\n * @param
limit Non-negative value specifying the maximum number of substrings the string can be split to.\n * Zero by
default means no limit is set.\n */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun split(input:
CharSequence, limit: Int = 0): List<String> {\n    requireNonNegativeLimit(limit)\n    val matches =
findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n    val result = mutableListOf<String>()\n    var
lastStart = 0\n    for (match in matches) {\n        result.add(input.subSequence(lastStart,
match.range.start).toString())\n        lastStart = match.range.endInclusive + 1\n    }\n    result.add(input.subSequence(lastStart, input.length).toString())\n
\n    return result\n }\n\n /**\n * Splits the [input] CharSequence to a sequence of strings around matches of
this regular expression.\n *\n * @param limit Non-negative value specifying the maximum number of

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substrings the string can be split to.\n    * Zero by default means no limit is set.\n    * @sample
samples.text.Regexps.splitToSequence\n    *^\n    @SinceKotlin("\1.6")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
@Suppress("\ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    public actual fun
splitToSequence(input: CharSequence, limit: Int = 0): Sequence<String> {\n
requireNonNegativeLimit(limit)\n\n    return sequence {\n        var match = find(input)\n        if (match ==
null || limit == 1) {\n            yield(input.toString())\n            return@sequence\n        }\n        var
nextStart = 0\n        var splitCount = 0\n        do {\n            val foundMatch = match!!\n
            yield(input.substring(nextStart, foundMatch.range.first))\n            nextStart =
foundMatch.range.endInclusive + 1\n            match = foundMatch.next()\n        } while (++splitCount != limit -
1 && match != null)\n        yield(input.substring(nextStart, input.length))\n    }\n}\n\n    /**\n    *
Returns the string representation of this regular expression, namely the [pattern] of this regular expression.\n    *\n
* Note that another regular expression constructed from the same pattern string may have different [options]\n    *
and may match strings differently.\n    *^\n    public override fun toString(): String = nativePattern.toString()\n
actual companion object {\n    /**\n    * Returns a regular expression that matches the specified [literal] string
literally.\n    * No characters of that string will have special meaning when searching for an occurrence of the
regular expression.\n    *^\n    public
actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))\n    /**\n    * Returns a regular
expression pattern string that matches the specified [literal] string literally.\n    * No characters of that string will
have special meaning when searching for an occurrence of the regular expression.\n    *^\n    public actual fun
escape(literal: String): String = literal.nativeReplace(patternEscape, "\\\\\\\\$&")\n    /**\n    * Returns a literal
replacement expression for the specified [literal] string.\n    * No characters of that string will have special
meaning when it is used as a replacement string in [Regex.replace] function.\n    *^\n    public actual fun
escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, "\\\\\\\\$&")\n    private val
patternEscape = RegExp("\\""[\\\\\\^$*+?.()[\]{}|\\""|"", "g")\n    private val replacementEscape =
RegExp("\\""[\\\\\\$]|\\""|"", "g")\n
    internal fun nativeEscapeReplacement(literal: String): String = literal.nativeReplace(nativeReplacementEscape,
"\$$$$")\n    private val nativeReplacementEscape = RegExp("\\""|\\""|\$|\\""|"", "g")\n    }\n}\n\nprivate fun
RegExp.findNext(input: String, from: Int, nextPattern: RegExp): MatchResult? {\n    this.lastIndex = from\n    val
match = exec(input)\n    if (match == null) return null\n    val range = match.index..lastIndex - 1\n    return object :
MatchResult {\n        override val range: IntRange = range\n        override val value: String\n            get() =
match[0]!\n        override val groups: MatchGroupCollection = object : MatchGroupCollection,
AbstractCollection<MatchGroup?>() {\n            override val size: Int get() = match.length\n            override fun
iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()\n            override fun get(index:
Int): MatchGroup? = match[index]?.let { MatchGroup(it) }\n        }\n\n        private var groupValues_: List<String?> = null\n        override val groupValues: List<String>\n            get()
{\n            if (groupValues_ == null) {\n                groupValues_ = object : AbstractList<String>() {\n
                    override val size: Int get() = match.length\n                    override fun get(index: Int): String = match[index] ?
:\n                    }\n                }\n                return groupValues_!!\n            }\n            override fun next():
MatchResult? =\n                nextPattern.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive +
1, nextPattern)\n        }\n}\n\n// The same code from K/N Regex.kt\nprivate fun substituteGroupRefs(match:
MatchResult, replacement: String): String {\n    var index = 0\n    val result = StringBuilder(replacement.length)\n
while (index < replacement.length) {\n        val char = replacement[index++]\n        if (char == '\\') {\n            if
(index
== replacement.length)\n                throw IllegalArgumentException("\The Char to be escaped is missing")\n            result.append(replacement[index++])\n        } else if (char == '$') {\n            if (index == replacement.length)\n                throw IllegalArgumentException("\Capturing group index is missing")\n            if (replacement[index] ==
'{')\n                throw IllegalArgumentException("\Named capturing group reference currently is not supported")\n

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        if (replacement[index] !in '0'..'9')\n            throw IllegalArgumentException("\Invalid capturing group
reference")\n        val endIndex = replacement.readGroupIndex(index, match.groupValues.size)\n        val
groupIndex = replacement.substring(index, endIndex).toInt()\n        if (groupIndex >=
match.groupValues.size)\n            throw IndexOutOfBoundsException("Group with index $groupIndex does not
exist")\n        result.append(match.groupValues[groupIndex])\n        index = endIndex\n    } else {\n        result.append(char)\n    }\n    }\n    return
result.toString()\n}\n\nprivate fun String.readGroupIndex(startIndex: Int, groupCount: Int): Int {\n    // at least one
digit after '$' is always captured\n    var index = startIndex + 1\n    var groupIndex = this[startIndex] - '0'\n    //
capture the largest valid group index\n    while (index < length && this[index] in '0'..'9') {\n        val newGroupIndex
= (groupIndex * 10) + (this[index] - '0')\n        if (newGroupIndex in 0 until groupCount) {\n            groupIndex =
newGroupIndex\n            index++\n        } else {\n            break\n        }\n    }\n    return index\n}", "/*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\StringsKt")\n@file:Suppress("\EXTENSI
ON_SHADOWED_BY_MEMBER")\n\npackage
kotlin.text\nimport kotlin.contracts.*\n\n/**\n * A mutable sequence of characters.\n * \n * String builder can be
used to efficiently perform multiple string manipulation operations.\n *\nexpect class StringBuilder : Appendable,
CharSequence {\n    /**\n     * Constructs an empty string builder.\n     *\n    constructor()\n\n    /**\n     * Constructs an empty string
builder with the specified initial [capacity].\n     *\n    constructor(capacity: Int)\n\n    /**\n     * Constructs a string builder that
contains the same characters as the specified [content] char sequence.\n     *\n    constructor(content: CharSequence)\n\n    /**\n     * Constructs a string builder that contains the same characters as the specified [content] string.\n     *\n
@SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n    constructor(content: String)\n\n    override val length:
Int\n\n    override operator fun get(index: Int): Char\n\n    override fun subSequence(startIndex: Int, endIndex:
Int): CharSequence\n\n    override fun append(value: Char): StringBuilder\n\n    override fun append(value:
CharSequence?): StringBuilder\n\n    override fun append(value: CharSequence?, startIndex: Int, endIndex: Int):
StringBuilder\n\n    /**\n     * Reverses the contents of this string builder and returns this instance.\n     *\n     *
Surrogate pairs included in this string builder are treated as single characters.\n     * Therefore, the order of the high-
low surrogates is never reversed.\n     *\n     * Note that the reverse operation may produce new surrogate pairs that
were unpaired low-surrogates and high-surrogates before the operation.\n     * For example, reversing
`"\uDC00\uD800"` produces `"\uD800\uDC00"` which is a valid surrogate pair.\n     *\n     fun reverse():
StringBuilder\n\n    /**\n     * Appends the string representation of the specified object [value] to this string builder
and returns this instance.\n     *\n     * The overall effect is exactly as if the
[value] were converted to a string by the `value.toString()` method,\n     * and then that string was appended to this
string builder.\n     *\n     fun append(value: Any?): StringBuilder\n\n    /**\n     * Appends the string representation
of the specified boolean [value] to this string builder and returns this instance.\n     *\n     * The overall effect is
exactly as if the [value] were converted to a string by the `value.toString()` method,\n     * and then that string was
appended to this string builder.\n     *\n     @SinceKotlin("1.3")\n    fun append(value: Boolean): StringBuilder\n\n    /**\n     * Appends characters in the specified character array [value] to this string builder and returns this
instance.\n     *\n     * Characters are appended in order, starting at the index 0.\n     *\n     @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    fun append(value: CharArray): StringBuilder\n\n    /**\n     *
Appends the specified string [value] to this
string builder and returns this instance.\n     *\n     * If [value] is `null`, then the four characters `"\null"` are
appended.\n     *\n     @SinceKotlin("1.3")\n    fun append(value: String?): StringBuilder\n\n    /**\n     * Returns
the current capacity of this string builder.\n     *\n     * The capacity is the maximum length this string builder can
have before an allocation occurs.\n     *\n     @SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n    @Deprecated("\Obtaining StringBuilder capacity is not supported in JS and common code.", level =
DeprecationLevel.ERROR)\n    fun capacity(): Int\n\n    /**\n     * Ensures that the capacity of this string builder is
at least equal to the specified [minimumCapacity].\n     *\n     * If the current capacity is less than the

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[minimumCapacity], a new backing storage is allocated with greater capacity.\n * Otherwise, this method takes
no action and simply returns.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
fun ensureCapacity(minimumCapacity: Int)\n\n /**\n * Returns the index within this string builder of the first
occurrence of the specified [string].\n *\n * Returns -1 if the specified [string] does not occur in this string
builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
indexOf(string: String): Int\n\n /**\n * Returns the index within this string builder of the first occurrence of the
specified [string],\n * starting at the specified [startIndex].\n *\n * Returns -1 if the specified [string] does
not occur in this string builder starting at the specified [startIndex].\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun indexOf(string: String, startIndex: Int): Int\n\n /**\n
* Returns the index within this string builder of the last occurrence of the specified [string].\n * The last
occurrence of empty string
`\"` is considered to be at the index equal to `this.length`.\n *\n * Returns -1 if the specified [string] does
not occur in this string builder.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String): Int\n\n /**\n * Returns
the index within this string builder of the last occurrence of the specified [string],\n * starting from the specified
[startIndex] toward the beginning.\n *\n * Returns -1 if the specified [string] does not occur in this string
builder starting at the specified [startIndex].\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun lastIndexOf(string: String, startIndex: Int): Int\n\n
/**\n * Inserts the string representation of the specified boolean [value] into this string builder at the specified
[index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted
to a string by the `value.toString()` method,\n * and then that string was inserted into this string builder at the
specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the
length of this string builder.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Boolean): String\n\n /**\n
* Inserts the specified character [value] into this string builder at the specified [index] and returns this
instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
insert(index: Int, value: Char): String\n\n /**\n * Inserts characters in the specified character array
[value] into this string builder at the specified [index] and returns this instance.\n *\n * The
inserted characters go in same order as in the [value] character array, starting at [index].\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value:
CharArray): String\n\n /**\n * Inserts characters in the specified character sequence [value] into this
string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same
order as in the [value] character sequence, starting at [index].\n *\n * @param index the position in this string
builder to insert at.\n * @param value the character sequence from which characters are inserted. If [value] is
`null`, then the four characters `\"null\"` are inserted.\n *\n * @throws IndexOutOfBoundsException if [index]
is less than zero or greater than the length of this string
builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun
insert(index: Int, value: CharSequence?): String\n\n /**\n * Inserts the string representation of the
specified object [value] into this string builder at the specified [index] and returns this instance.\n *\n * The
overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then
that string was inserted into this string builder at the specified [index].\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value:
Any?): String\n\n /**\n * Inserts the string [value] into this string builder at the specified [index] and
returns this instance.\n *\n * If [value] is `null`, then the four characters

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`"null"` are inserted.\n * \n * @throws IndexOutOfBoundsException if [index] is less than zero or greater
than the length of this string builder.\n * \n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: String?): StringBuilder\n
/** \n * Sets the length of this string builder to the specified [newLength].\n * \n * If the [newLength] is less
than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters `'\u0000'` are
appended to this string builder until its length is less than the [newLength].\n * \n * Note that in Kotlin/JS [set]
operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string
builder and then updating each character by index may slow down your program.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n
* \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun setLength(newLength:
Int)\n /** \n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive)
and up to the [length] (exclusive).\n * \n * @throws IndexOutOfBoundsException if [startIndex] is less than
zero or greater than the length of this string builder.\n * \n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int): String\n /** \n * Returns
a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex]
(exclusive).\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * \n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex:
Int, endIndex: Int): String\n /** \n * Attempts to reduce storage used for this string builder.\n * \n * If the
backing storage of this string builder is larger than necessary to hold its current contents,\n * then it may be
resized to become more space efficient.\n * Calling this method may, but is not required to, affect the value of the
[capacity] property.\n * \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun trimToSize()\n}\n\n/** \n * Clears the content of this string builder making it empty and returns this instance.\n
* \n * @sample samples.text.Strings.clearStringBuilder\n * \n @SinceKotlin("1.3")\n\npublic expect fun
StringBuilder.clear(): String\n\n/** \n * Sets the character at the specified [index] to the specified [value].\n
* \n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n
* \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic
expect operator fun StringBuilder.set(index: Int, value: Char)\n\n/** \n * Replaces characters in the specified range
of this string builder with characters in the specified string [value] and returns this instance.\n * \n * @param
startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to
replace.\n * @param value the string to replace with.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or
`startIndex > endIndex`.\n * \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic
expect fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): String\n\n/** \n * Removes
the character at the specified [index] from this string builder and returns this instance.\n * \n * If the `Char` at the
specified [index] is part of a supplementary code point, this method does not remove the entire
supplementary character.\n * \n * @param index the index of `Char` to remove.\n * \n * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n
* \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
StringBuilder.deleteAt(index: Int): String\n\n/** \n * Removes characters in the specified range from this
string builder and returns this instance.\n * \n * @param startIndex the beginning (inclusive) of the range to
remove.\n * @param endIndex the end (exclusive) of the range to remove.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder
indices or when `startIndex > endIndex`.\n
* \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): String\n\n/** \n * Copies characters from this
string builder into the [destination] character array.\n * \n

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\* @param destination the array to copy to.\n \* @param destinationOffset the position in the array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =  
this.length)\n\n/**\n * Appends characters in a subarray of the specified character
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array [value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at  
specified [startIndex].\n *\n * @param value the array from which characters are appended.\n * @param startIndex  
the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to  
append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or  
[endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
```

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Appends a  
subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning  
(inclusive) of the subsequence
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to append.\n *\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws  
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the  
[value] character sequence indices or when `startIndex > endIndex`.\n
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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts  
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and  
returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters  
are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the  
end (exclusive) of the subarray to insert.\n
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*\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out  
of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if  
[index] is less than zero or greater than the length of this string builder.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified  
[index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character  
sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value  
the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the  
subsequence to insert.\n
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```
* @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws  
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the  
[value] character sequence indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if  
[index] is less than zero or greater than the length of this string builder.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int):  
StringBuilder\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n@Deprecated("Use  
append(value: Any?) instead", ReplaceWith("append(value = obj)"),
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DeprecationLevel.WARNING)\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n\n/**\n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]\n * and then converting it to [String].\n
*\n@kotlin.internal.InlineOnly\npublic inline fun buildString(builderAction: StringBuilder.() -> Unit): String {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return
StringBuilder().apply(builderAction).toString()\n}\n\n/**\n * Builds new string by populating newly created
[StringBuilder] initialized with the given [capacity]\n * using provided [builderAction] and then converting it to
[String].\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int,
builderAction: StringBuilder.() -> Unit): String {\n contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n return
StringBuilder(capacity).apply(builderAction).toString()\n}\n\n/**\n * Appends all arguments to the given
StringBuilder.\n *\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\n for (item in
value)\n append(item)\n return this\n}\n\n/**\n * Appends all arguments to the given StringBuilder.\n
*\npublic fun StringBuilder.append(vararg value: Any?): StringBuilder {\n for (item in value)\n
append(item)\n return this\n}\n\n/**\n * Appends a line feed character (`\n`) to this StringBuilder.
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine():
StringBuilder = append("\n")\n\n/**\n * Appends [value] to this [StringBuilder], followed by a line feed character
(`\n`). *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
CharSequence?): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder],
followed by a line feed character (`\n`). *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: String?): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to
this [StringBuilder], followed by a line feed character (`\n`).
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun StringBuilder.appendLine(value: Any?): StringBuilder = append(value).appendLine()\n\n/**\n * Appends
[value] to this [StringBuilder], followed by a line feed character (`\n`).
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
CharArray): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this [StringBuilder], followed
by a line feed character (`\n`). *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Char): StringBuilder = append(value).appendLine()\n\n/**\n * Appends [value] to this
[StringBuilder], followed by a line feed character (`\n`).
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
Boolean): StringBuilder = append(value).appendLine()\n\n/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.\n *\npackage kotlin.text\n\nimport
kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(ch: Char,
fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual
inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(),
fromIndex)\n\n/**\n * Returns `true` if this string starts with the specified prefix.\n
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun
String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n return
nativeStartsWith(prefix, 0)\n else\n return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n *
Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified
prefix.\n
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n if
(!ignoreCase)\n return nativeStartsWith(prefix, startIndex)\n else\n return regionMatches(startIndex,
prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this string ends with the specified suffix.\n
*\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun
String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase)\n return

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nativeEndsWith(suffix)\n else\n     return regionMatches(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n\n@Deprecated("Use Regex.matches() instead",
ReplaceWith("regex.toRegex().matches(this)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.6")\npublic fun
String.matches(regex: String): Boolean {\n     @Suppress("DEPRECATION")\n     val result = this.match(regex)\n
return result != null && result.size != 0}\n\n/**\n * Returns `true` if this string is empty or consists solely of whitespace characters.\n * \n * @sample
samples.text.Strings.stringIsBlank\n */\n\npublic actual fun CharSequence.isBlank(): Boolean = length == 0 ||
indices.all { this[it].isWhitespace() }\n\n/**\n * Returns `true` if this string is equal to [other], optionally ignoring
character case.\n * \n * Two strings are considered to be equal if they have the same length and the same character at
the same index.\n * \n * If [ignoreCase] is true, the result of `Char.toUpperCaseChar().toLowerCaseChar()` on each character
is compared.\n * \n * @param ignoreCase `true` to ignore character case when comparing strings. By default
`false`.\n */\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun
String?.equals(other: String?, ignoreCase: Boolean = false): Boolean {\n     if (this == null) return other == null\n     if
(other == null) return false\n     if (!ignoreCase) return this == other\n     if (this.length != other.length) return
false\n     for (index in 0 until this.length) {\n         val thisChar = this[index]\n         val otherChar = other[index]\n
if (!thisChar.equals(otherChar, ignoreCase)) {\n             return false\n         }\n     }\n     return
true}\n\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun
CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase:
Boolean = false): Boolean =\n     regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n * or the original
string if it's empty or already starts with a title case letter.\n * \n * The title case of a character is usually the same as
its upper case with several exceptions.\n * \n * The particular list of characters with the special title case form depends
on the underlying platform.\n * \n * @sample samples.text.Strings.capitalize\n */\n\n@Deprecated("Use
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString()
}"))\n\n@DeprecatedSinceKotlin(warningSince = "1.5")\n\npublic actual fun String.capitalize(): String {\n     return if
(isNotEmpty()) substring(0, 1).uppercase() + substring(1) else this}\n\n\n/**\n * Returns a copy of this string having
its first letter lowercased using the rules of the default locale,\n * or the original string if it's empty or already starts
with a lower case letter.\n * \n * @sample samples.text.Strings.decapitalize\n */\n\n@Deprecated("Use
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase()
}"))\n\n@DeprecatedSinceKotlin(warningSince = "1.5")\n\npublic actual fun String.decapitalize(): String {\n     return
if (isNotEmpty()) substring(0, 1).lowercase() + substring(1) else this}\n\n\n/**\n * Returns a string containing this
char sequence repeated [n] times.\n * \n * @throws [IllegalArgumentException] when n < 0.\n * \n * @sample samples.text.Strings.repeat\n */\n\npublic actual fun CharSequence.repeat(n: Int): String {\n     require(n
>= 0) {\n         "Count 'n' must be non-negative, but was $n." }\n     return when (n) {\n         0 -> ""\n         1 ->
this.toString()\n         else -> {\n             var result = ""\n             if (!isEmpty()) {\n                 var s = this.toString()\n
var count = n\n                 while (true) {\n                     if ((count and 1) == 1) {\n                         result += s\n
}\n                     count = count ushr 1\n                     if (count == 0) {\n                         break\n                     }\n
s += s\n                 }\n             }\n             return result\n         }\n     }\n\n\n/**\n * Returns a new string
obtained by replacing all occurrences of the [oldValue] substring in this string\n * with the specified [newValue]
string.\n * \n * @sample samples.text.Strings.replace\n */\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n     nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "gui" else "gu"),
Regex.nativeEscapeReplacement(newValue))\n\n\n/**\n * Returns a new string with all occurrences of [oldChar]
replaced with [newChar].\n * \n * @sample samples.text.Strings.replace\n */\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic actual fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n     nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "gui" else "gu"),

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newChar.toString())\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual
fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"ui\" else \"u\"),
Regex.nativeEscapeReplacement(newValue))\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGU
MENTS")\npublic
actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"ui\" else \"u\"),
newChar.toString())\n\n\"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/** Returns the negative [size] if [throwOnMalformed] is
false, throws [CharacterCodingException] otherwise. */\nprivate fun malformed(size: Int, index: Int,
throwOnMalformed: Boolean): Int {\n    if (throwOnMalformed) throw CharacterCodingException(\"Malformed
sequence starting at ${index - 1}\")\n    return -size\n}\n\n/** Returns code point corresponding to UTF-16
surrogate pair,\n * where the first of the pair is the [high] and the second is in the [string] at the [index].\n
 * Returns zero if the pair is malformed and [throwOnMalformed] is false.\n * @throws
CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\n */\nprivate fun
codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n
if (high !in 0xD800..0xDBFF || index >= endIndex) {\n    return malformed(0, index, throwOnMalformed)\n }
\n    val low = string[index].code\n    if (low !in 0xDC00..0xDFFF) {\n        return malformed(0, index,
throwOnMalformed)\n    }\n    return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of two bytes,\n * where the first byte of the sequence is the
[byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed
and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of two bytes is
malformed and [throwOnMalformed]
is true.\n */\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int,
throwOnMalformed: Boolean): Int {\n    if (byte1 and 0x1E == 0 || index >= endIndex) {\n        return
malformed(0, index, throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte2 and 0xC0 != 0x80) {\n        return
malformed(0, index, throwOnMalformed)\n    }\n    return (byte1 shl 6) xor byte2 xor 0xF80\n}\n\n/**\n * Returns
code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the sequence is the [byte1]
and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating
number of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed]
is false.\n * @throws CharacterCodingException if the sequence of three bytes is malformed and
[throwOnMalformed] is true.\n */\nprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex:
Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex) {\n        return malformed(0, index,
throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte1 and 0xF == 0) {\n        if (byte2
and 0xE0 != 0xA0) {\n            // Non-shortest form\n            return malformed(0, index, throwOnMalformed)\n        }\n    }
else if (byte1 and 0xF == 0xD) {\n        if (byte2 and 0xE0 != 0x80) {\n            // Surrogate code point\n
return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte2 and 0xC0 != 0x80) {\n        return
malformed(0, index, throwOnMalformed)\n    }\n    if (index + 1 == endIndex) {\n        return malformed(1, index,
throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n        return
malformed(1, index, throwOnMalformed)\n    }\n    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -
0x1E080\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence
of four bytes,\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array
starting from the [index].\n * Returns a non-positive value indicating number of bytes from [bytes] included in
malformed
sequence\n * if the sequence is malformed and [throwOnMalformed] is false.\n * @throws
CharacterCodingException if the sequence of four bytes is malformed and [throwOnMalformed] is true.\n
 */\nprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:
Boolean): Int {\n    if (index >= endIndex) {\n        malformed(0, index, throwOnMalformed)\n    }\n    val byte2 =

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bytes[index].toInt()\n  if (byte1 and 0xF == 0x0) {\n    if (byte2 and 0xF0 <= 0x80) {\n      // Non-shortest
form\n      return malformed(0, index, throwOnMalformed)\n    } else if (byte1 and 0xF == 0x4) {\n
if (byte2 and 0xF0 != 0x80) {\n      // Out of Unicode code points domain (larger than U+10FFFF)\n
      return malformed(0, index, throwOnMalformed)\n    } else if (byte1 and 0xF > 0x4) {\n      return
malformed(0, index, throwOnMalformed)\n    } else if (byte2 and 0xC0 != 0x80) {\n      return malformed(0, index,
throwOnMalformed)\n    }\n    if (index + 1 == endIndex) {\n      return malformed(1, index,
throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n      return
malformed(1, index, throwOnMalformed)\n    }\n    if (index + 2 == endIndex) {\n      return malformed(2, index,
throwOnMalformed)\n    }\n    val byte4 = bytes[index + 2].toInt()\n    if (byte4 and 0xC0 != 0x80) {\n      return
malformed(2, index, throwOnMalformed)\n    }\n    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor
byte4 xor 0x381F80)\n}\n\n**\n * Maximum number of bytes needed to encode a single char.\n * \n * Code points in
`0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded
in two bytes.\n * Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate
code points in `0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n * \nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n**\n * The byte sequence a malformed UTF-16 char sequence is
replaced by.\n * \nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = arrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n
*\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to
encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param
throwOnMalformed whether to throw on malformed char sequence or replace by the
[REPLACEMENT_BYTE_SEQUENCE].\n * \n * @throws CharacterCodingException
if the char sequence is malformed and [throwOnMalformed] is true.\n * \ninternal fun encodeUtf8(string: String,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\n  require(startIndex >= 0 && endIndex
<= string.length && startIndex <= endIndex)\n  val bytes = ByteArray((endIndex - startIndex) *
MAX_BYTES_PER_CHAR)\n  var byteIndex = 0\n  var charIndex = startIndex\n  while (charIndex <
endIndex) {\n    val code = string[charIndex++].code\n    when {\n      code < 0x80 ->\n
bytes[byteIndex++] = code.toByte()\n      code < 0x800 -> {\n        bytes[byteIndex++] = ((code shr 6) or
0xC0).toByte()\n        bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n      }\n      code <
0xD800 || code >= 0xE000 -> {\n        bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n
bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte()\n        bytes[byteIndex++]
= ((code and 0x3F) or 0x80).toByte()\n      }\n      else -> { // Surrogate char value\n        val codePoint
= codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)\n        if (codePoint <= 0)
{\n          bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[0]\n        }\n        bytes[byteIndex++]
= REPLACEMENT_BYTE_SEQUENCE[1]\n        bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n      }\n      } else {\n        bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n        bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n
        bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n        bytes[byteIndex++] =
((codePoint and 0x3F) or 0x80).toByte()\n        charIndex++\n      }\n    }\n  }\n  return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n**\n
* The character a malformed UTF-8 byte sequence is replaced by.\n * \nprivate const val REPLACEMENT_CHAR
= "\\uFFFD"\n\n**\n * Decodes the UTF-8 [bytes] array and returns the resulting [String].\n * \n * @param bytes the
byte array to decode.\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param
endIndex the end offset (exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw
on malformed byte sequence or replace by the [REPLACEMENT_CHAR].\n * \n * @throws
CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n
*\ninternal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String
{\n  require(startIndex >= 0 && endIndex <= bytes.size && startIndex <= endIndex)\n  var byteIndex =

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startIndex\n    val stringBuilder = StringBuilder()\n\n    while (byteIndex < endIndex) {\n        val byte =
bytes[byteIndex++].toInt()\n        when {\n            byte >= 0 ->\n                stringBuilder.append(byte.toChar())\n            byte shr 5 == -2 -> {\n                val code = codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0)\n                {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else\n                {\n                    stringBuilder.append(code.toChar())\n                    byteIndex += 1\n                }\n            }\n            byte shr 4 == -2 -> {\n                val code = codePointFrom3(bytes, byte, byteIndex, endIndex,\n                throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex += 2\n                }\n            }\n            byte shr 3 == -2 -> {\n                val code = codePointFrom4(bytes,\n                byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    val high = (code - 0x10000) shr 10 or 0xD800\n                    val low = (code and 0x3FF) or 0xDC00\n                    stringBuilder.append(high.toChar())\n                    stringBuilder.append(low.toChar())\n                    byteIndex +=\n                    3\n                }\n            }\n            else -> {\n                malformed(0, byteIndex, throwOnMalformed)\n                stringBuilder.append(REPLACEMENT_CHAR)\n            }\n        }\n    }\n\n    return\nstringBuilder.toString()\n}"/\n\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language\ncontributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns the detailed\n * description of this throwable with its stack trace.\n * The detailed description includes:\n * - the short\n * description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of\n * the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed\n * description of each throwable in the [Throwable.cause] chain.\n */\n@SinceKotlin("1.4")\npublic actual fun\nThrowable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n\n/**\n * Prints the [detailed\n * description][Throwable.stackTraceToString] of this throwable to console error output.\n */\n@SinceKotlin("1.4")\npublic actual fun Throwable.printStackTrace() {\n    console.error(this.stackTraceToString())\n}\n\n/**\n * Adds the specified exception to the list of exceptions that\n * were\n * suppressed in order to deliver this exception.\n */\n@SinceKotlin("1.4")\npublic actual fun\nThrowable.addSuppressed(exception: Throwable)\n{\n    if (this !== exception) {\n        val suppressed =\nthis.asDynamic()._suppressed.unsafeCast<MutableList<Throwable?>>()\n        if (suppressed == null) {\n            this.asDynamic()._suppressed = mutableListOf(exception)\n        } else {\n            suppressed.add(exception)\n        }\n    }\n}\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n */\n@SinceKotlin("1.4")\npublic actual val Throwable.suppressedExceptions: List<Throwable>\n    get() {\n        return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()\n    }\n}\n\nprivate class\nExceptionTraceBuilder {\n    private val target = StringBuilder()\n    private val visited = arrayOf<Throwable>()\n    private var topStack: String = ""\n    private var topStackStart: Int = 0\n\n    fun buildFor(exception: Throwable):\n    String {\n        exception.dumpFullTrace("", "")\n        return target.toString()\n    }\n\n    private fun\nhasSeen(exception:\n    Throwable): Boolean = visited.any { it === exception }\n\n    private fun Throwable.dumpFullTrace(indent: String,\n    qualifier: String) {\n        this.dumpSelfTrace(indent, qualifier) || return\n\n        var cause = this.cause\n        while\n        (cause != null) {\n            cause.dumpSelfTrace(indent, "Caused by: ") || return\n            cause = cause.cause\n        }\n    }\n\n    private fun Throwable.dumpSelfTrace(indent: String, qualifier: String): Boolean {\n        target.append(indent).append(qualifier)\n        val shortInfo = this.toString()\n        if (hasSeen(this)) {\n            target.append("[CIRCULAR REFERENCE, SEE ABOVE: ").append(shortInfo).append("]\n")\n            return\n        }\n        visited.asDynamic().push(this)\n        var stack = this.asDynamic().stack as String?\n        if\n        (stack != null) {\n            val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n            if (stackStart == 0) target.append(shortInfo).append("\n")\n        }\n    }\n}

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        if (topStack.isEmpty()) {\n            topStack = stack\n            topStackStart = stackStart\n        } else
{\n            stack = dropCommonFrames(stack, stackStart)\n        }\n        if (indent.isNotEmpty()) {\n
// indent stack, but avoid indenting exception message lines\n            val messageLines = if (stackStart == 0) 0
else 1 + shortInfo.count { c -> c == '\n' }\n            stack.lineSequence().forEachIndexed { index: Int, line: String -
>\n                if (index >= messageLines) target.append(indent)\n                target.append(line).append("\n")\n
            }\n        } else {\n            target.append(stack).append("\n")\n        } else {\n
target.append(shortInfo).append("\n")\n        }\n        val suppressed = suppressedExceptions\n        if
(suppressed.isNotEmpty()) {\n            val suppressedIndent =
indent + "\n"
            for (s in suppressed) {\n                s.dumpFullTrace(suppressedIndent, "Suppressed: ")\n
            }\n        }\n        return true\n    }\n    private fun dropCommonFrames(stack: String, stackStart: Int): String {\n
var commonFrames: Int = 0\n    var lastBreak: Int = 0\n    var preLastBreak: Int = 0\n    for (pos in 0 until
minOf(topStack.length - topStackStart, stack.length - stackStart)) {\n        val c = stack[stack.lastIndex - pos]\n
if (c != topStack[topStack.lastIndex - pos]) break\n        if (c == '\n') {\n            commonFrames += 1\n
preLastBreak = lastBreak\n            lastBreak = pos\n        }\n    }\n    if (commonFrames <= 1) return
stack\n    while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)] == '\n')\n        preLastBreak --
1\n    // leave 1 common frame to ease matching with the top exception stack\n    return
stack.dropLast(preLastBreak)
+ "\n... and ${commonFrames - 1} more common stack frames skipped"\n    }\n}"/**\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport
kotlin.js.json\nimport kotlin.math.*\n\ninternal actual inline val durationAssertionsEnabled: Boolean get() =
true\n\ninternal actual fun formatToExactDecimals(value: Double, decimals: Int): String {\n    val rounded = if
(decimals == 0) {\n        value\n    } else {\n        val pow = 10.0.pow(decimals)\n        JsMath.round(abs(value) *
pow) / pow * sign(value)\n    }\n    return if (abs(rounded) < 1e21) {\n        // toFixed switches to scientific format
after 1e21\n        rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n    } else {\n        // toPrecision
outputs the specified number of digits, but only for positive numbers\n
        val positive = abs(rounded)\n        val positiveString = positive.asDynamic().toFixed(ceil(log10(positive)) +
decimals).unsafeCast<String>()\n        if (rounded < 0) {"-$positiveString"} else positiveString\n    }\n}\n\ninternal
actual fun formatUpToDecimals(value: Double, decimals: Int): String {\n    return
value.asDynamic().toLocaleString("en-us", json("maximumFractionDigits" to
decimals)).unsafeCast<String>()\n}\n}"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic actual enum class
DurationUnit(internal val scale: Double) {\n    /**\n     * Time unit representing one nanosecond, which is 1/1000 of
a microsecond.\n     */\n    NANOSECONDS(1e0),\n    /**\n     * Time unit representing one microsecond, which
is 1/1000 of a millisecond.\n     */\n    MICROSECONDS(1e3),\n    /**\n     * Time unit representing one
millisecond, which is 1/1000 of a second.\n     */\n    MILLISECONDS(1e6),\n    /**\n     * Time unit representing
one second.\n     */\n    SECONDS(1e9),\n    /**\n     * Time unit representing one minute.\n     */\n    MINUTES(60e9),\n    /**\n     * Time unit representing one hour.\n     */\n    HOURS(3600e9),\n    /**\n     * Time
unit representing one day, which is always equal to 24 hours.\n     */\n    DAYS(86400e9);\n}\n\n@SinceKotlin("1.3")\ninternal actual fun convertDurationUnit(value: Double, sourceUnit:
DurationUnit, targetUnit: DurationUnit): Double {\n    val sourceCompareTarget =
sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n        sourceCompareTarget > 0 -> value *
(sourceUnit.scale / targetUnit.scale)\n        sourceCompareTarget < 0 -> value / (targetUnit.scale /
sourceUnit.scale)\n        else -> value\n    }\n}\n\n@SinceKotlin("1.5")\ninternal
actual fun convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long
{\n    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n

```

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sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale).toLong()\n    sourceCompareTarget < 0
-> value / (targetUnit.scale / sourceUnit.scale).toLong()\n    else -> value\n
}\n}\n\n@SinceKotlin("1.5")\n\ninternal actual fun convertDurationUnit(value: Long, sourceUnit: DurationUnit,
targetUnit: DurationUnit): Long {\n    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n
return when {\n    sourceCompareTarget > 0 -> {\n        val scale = (sourceUnit.scale /
targetUnit.scale).toLong()\n        val result = value * scale\n        when {\n            result / scale == value ->
result\n            value > 0 -> Long.MAX_VALUE\n            else -> Long.MIN_VALUE\n        }\n    }\n    sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale).toLong()\n    else -> value\n
}\n}\n\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.time\n\nimport org.w3c.performance.GlobalPerformance\n\nimport
org.w3c.performance.Performance\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\ninternal actual object
MonotonicTimeSource : TimeSource {\n    private val actualSource: TimeSource = run {\n        val isNode:
Boolean = js("typeof process !== 'undefined' && process.versions && !process.versions.node")\n        if
(isNode)\n            HrTimeSource(js("process").unsafeCast<Process>())\n        else\n
js("self").unsafeCast<GlobalPerformance?>()??.performance?.let(::PerformanceTimeSource)\n        ?:
DateNowTimeSource\n    }\n    override fun markNow():
TimeMark = actualSource.markNow()\n}\n\n\ninternal external interface Process {\n    fun hrtime(time:
Array<Double> = definedExternally): Array<Double>\n}\n\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\ninternal
class HrTimeSource(val process: Process) : TimeSource {\n    override fun markNow(): TimeMark = object :
TimeMark() {\n        val startedAt = process.hrtime()\n        override fun elapsedNow(): Duration =\n
process.hrtime(startedAt).let { (seconds, nanos) -> seconds.toDuration(DurationUnit.SECONDS) +
nanos.toDuration(DurationUnit.NANOSECONDS) }\n    }\n    override fun toString(): String =
"TimeSource(process.hrtime())"\n}\n\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\ninternal class
PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {\n    override fun read(): Double = performance.now()\n    override fun toString():
String = "TimeSource(self.performance.now())"\n}\n\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\ninternal
object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n    override
fun read(): Double = kotlin.js.Date.now()\n    override fun toString(): String = "TimeSource(Date.now())"\n}\n\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage
kotlinx.dom\n\nimport org.w3c.dom.*\n\nimport kotlin.contracts.*\n\n\n/**\n * Creates a new element with the
specified [name].\n * The element is initialized with the specified [init] function.\n
*/\n\n@SinceKotlin("1.4")\n\npublic fun Document.createElement(name: String, init: Element.() -> Unit): Element {\n
    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n    return
createElement(name).apply(init)\n}\n\n\n/**\n * Appends a newly created element with the specified [name] to this
element.\n * The element is initialized
with the specified [init] function.\n
*/\n\n@SinceKotlin("1.4")\n\npublic fun Element.appendChild(name: String,
init: Element.() -> Unit): Element {\n    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n
return ownerDocument!!.createElement(name, init).also { appendChild(it) }\n}\n\n\n", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlinx.dom\n\nimport
org.w3c.dom.*\n\n\n/**\n * Returns true if the element has the given CSS class style in its 'class' attribute
*/\n\n@SinceKotlin("1.4")\n\nfun Element.hasClass(cssClass: String): Boolean =
className.matches("\\\\b(?:^|\\\\s+)$cssClass(\\\\s+)*\\\\b".toRegex())\n\n\n/**\n * Adds CSS class to element. Has no
effect if all specified classes are already in class attribute of the element\n
*/\n\n * @return true if at least one class has
been added\n
*/\n\n@SinceKotlin("1.4")\n\nfun

```

```

Element.addClass(vararg cssClasses: String): Boolean {
    val missingClasses = cssClasses.filterNot { hasClass(it) }
    if (missingClasses.isNotEmpty()) {
        val presentClasses = className.trim()
        className = buildString {
            append(presentClasses)
            if (!presentClasses.isEmpty()) {
                append(" ")
            }
            missingClasses.joinTo(this, " ")
        }
        return true
    }
    return false
}

Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element
@return true if at least one class has been removed
@SinceKotlin("1.4")
fun Element.removeClass(vararg cssClasses: String): Boolean {
    if (cssClasses.any { hasClass(it) }) {
        val toBeRemoved = cssClasses.toSet()
        className = className.trim().split("\\s+").toRegex().filter { it !in toBeRemoved }.joinToString(" ")
        return true
    }
    return false
}

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@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package kotlin.text

Converts the string into a regular expression [Regex] with the default options.
@kotlin.internal.InlineOnly
public inline fun String.toRegex(): Regex = Regex(this)

Converts the string into a regular expression [Regex] with the specified single [option].
@kotlin.internal.InlineOnly
public inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)

Converts the string into a regular expression [Regex] with the specified set of [options].
@kotlin.internal.InlineOnly
public inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)

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package kotlinx.dom
nimport org.w3c.dom

Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.
@SinceKotlin("1.4")
public val Node.isText: Boolean
    get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE

Gets a value indicating whether this node is an [Element].
@SinceKotlin("1.4")
public val Node.isElement: Boolean
    get() = nodeType == Node.ELEMENT_NODE

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package kotlinx.dom
nimport org.w3c.dom

Removes all the children from this node.
@SinceKotlin("1.4")
public fun Node.clear() {
    while (hasChildNodes()) {
        removeChild(firstChild!!)
    }
}

Creates text node and append it to the element.
@return this element
@SinceKotlin("1.4")
fun Element.appendChild(text: String): Element {
    appendChild(ownerDocument!!.createTextNode(text))
    return this
}

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package org.w3c.dom
@Deprecated("Use UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy"))
typealias UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy
@Deprecated("Use `as` instead.", ReplaceWith("`as`"))
nvar HTMLLinkElement.as_
    get() = `as`
    set(value) {
        `as` = value
    }

@Deprecated("Use `is` instead.", ReplaceWith("`is`"))
nvar ElementCreationOptions.is_
    get() = `is`
    set(value) {
        `is` = value
    }

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@n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
n// See github.com/kotlin/dukat for details
package org.khronos.webgl
nimport kotlin.js
nimport org.w3c.dom
nimport org.w3c.dom.events
npublic external interface WebGLContextAttributes {
    var alpha: Boolean? /* = true */
    get() = definedExternally
    set(value) = definedExternally
    var depth: Boolean? /* = true */
    get() = definedExternally
    set(value) = definedExternally
    var stencil: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var antialias: Boolean? /* = true */
    get() = definedExternally
    set(value) = definedExternally
    var premultipliedAlpha:

```

```

Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var
preserveDrawingBuffer: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var preferLowPowerToHighPerformance: Boolean? /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var failIfMajorPerformanceCaveat: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun WebGLContextAttributes(alpha:
Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha:
Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false,
failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n    val o = js(\"({})\")\n
o[\"alpha\"]
= alpha\n    o[\"depth\"] = depth\n    o[\"stencil\"] = stencil\n    o[\"antialias\"] = antialias\n
o[\"premultipliedAlpha\"] = premultipliedAlpha\n    o[\"preserveDrawingBuffer\"] = preserveDrawingBuffer\n
o[\"preferLowPowerToHighPerformance\"] = preferLowPowerToHighPerformance\n
o[\"failIfMajorPerformanceCaveat\"] = failIfMajorPerformanceCaveat\n    return o\n}\n\npublic external abstract
class WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n */\n\npublic external
abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n */\n\npublic
external abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n */\n\npublic external
abstract class WebGLProgram : WebGLObject\n\n/**\n * Exposes
the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to
Kotlin\n */\n\npublic external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n */\n\npublic external
abstract class WebGLShader : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n */\n\npublic external
abstract class WebGLTexture : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n
*/\n\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript
[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n */\n\npublic
external abstract class WebGLActiveInfo {\n    open val size: Int\n    open val type: Int\n    open val name:
String\n}\n\n/**\n * Exposes the JavaScript
[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to
Kotlin\n */\n\npublic external abstract class WebGLShaderPrecisionFormat {\n    open val rangeMin: Int\n    open val
rangeMax: Int\n    open val precision:
Int\n}\n\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
WebGLRenderingContextBase {\n    val canvas: HTMLCanvasElement\n    val drawingBufferWidth: Int\n    val
drawingBufferHeight: Int\n    fun getContextAttributes(): WebGLContextAttributes?\n    fun isContextLost():
Boolean\n    fun getSupportedExtensions(): Array<String>?\n    fun getExtension(name: String): dynamic\n    fun
activeTexture(texture: Int)\n    fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n    fun
bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n    fun bindBuffer(target: Int, buffer:
WebGLBuffer?)\n    fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n
    fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n    fun bindTexture(target: Int, texture:
WebGLTexture?)\n    fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n    fun
blendEquation(mode: Int)\n    fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n    fun
blendFunc(sfactor: Int, dfactor: Int)\n    fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha:
Int)

```

Int)\n fun bufferData(target: Int, size: Int, usage: Int)\n fun bufferData(target: Int, data: BufferDataSource?,  
 usage: Int)\n fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n fun  
 checkFramebufferStatus(target: Int): Int\n fun clear(mask: Int)\n fun clearColor(red: Float, green: Float, blue:  
 Float, alpha: Float)\n fun clearDepth(depth: Float)\n fun clearStencil(s: Int)\n fun colorMask(red: Boolean,  
 green: Boolean, blue: Boolean, alpha: Boolean)\n fun compileShader(shader: WebGLShader?)\n fun  
 compressedTexImage2D(target:  
 Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView)\n fun  
 compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data:  
 ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int,  
 height: Int, border: Int)\n fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int,  
 width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n fun createFramebuffer(): WebGLFramebuffer?\n  
 fun createProgram(): WebGLProgram?\n fun createRenderbuffer(): WebGLRenderbuffer?\n fun  
 createShader(type: Int): WebGLShader?\n fun createTexture(): WebGLTexture?\n fun cullFace(mode: Int)\n  
 fun deleteBuffer(buffer: WebGLBuffer?)\n fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n fun  
 deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)\n  
 fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture: WebGLTexture?)\n fun  
 depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float, zFar: Float)\n fun  
 detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n fun  
 disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count: Int)\n fun  
 drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun  
 enableVertexAttribArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int,  
 attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target:  
 Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun  
 generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n  
 fun getActiveUniform(program: WebGLProgram?,  
 index: Int): WebGLActiveInfo?\n fun getAttachedShaders(program: WebGLProgram?):  
 Array<WebGLShader>\n fun getAttribLocation(program: WebGLProgram?, name: String): Int\n fun  
 getBufferParameter(target: Int, pname: Int): Any?\n fun getParameter(pname: Int): Any?\n fun getError(): Int\n  
 fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\n fun  
 getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program:  
 WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\n fun  
 getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun getShaderPrecisionFormat(shader: Int,  
 precisiontype: Int): WebGLShaderPrecisionFormat?\n fun getShaderInfoLog(shader: WebGLShader?): String?\n  
 fun getShaderSource(shader: WebGLShader?): String?\n fun getTexParameter(target: Int, pname: Int): Any?\n  
 fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?):  
 Any?\n fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\n fun  
 glVertexAttrib(index: Int, pname: Int): Any?\n fun glVertexAttribOffset(index: Int, pname: Int): Int\n fun  
 hint(target: Int, mode: Int)\n fun isBuffer(buffer: WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n  
 fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?):  
 Boolean\n fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader:  
 WebGLShader?): Boolean\n fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n  
 fun linkProgram(program: WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun  
 polygonOffset(factor: Float, units: Float)\n fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type:  
 Int, pixels: ArrayBufferView?)\n fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n  
 fun sampleCoverage(value: Float, invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun  
 shaderSource(shader: WebGLShader?, source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun  
 stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)\n fun stencilMask(mask: Int)\n fun  
 stencilMaskSeparate(face: Int, mask: Int)\n fun stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun

```

stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun texImage2D(target: Int, level: Int, internalformat:
Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun texImage2D(target:
Int, level: Int, internalformat: Int, format: Int, type: Int, source: TexImageSource?)\n fun texParameterf(target: Int,
pname: Int, param: Float)\n fun texParameteri(target: Int, pname: Int, param: Int)\n fun texSubImage2D(target:
Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format:
Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int,
format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x: Float)\n
fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y:
Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n
fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location:
WebGLUniformLocation?, x: Float, y: Float, z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v:
Float32Array)\n fun uniform3fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun
uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int)\n fun uniform3iv(location:
WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location: WebGLUniformLocation?, v: Array<Int>)\n
fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)\n fun
uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform4fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z:
Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform4iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniformMatrix2fv(location: WebGLUniformLocation?,
transpose: Boolean, value: Float32Array)\n fun uniformMatrix2fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix3fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix3fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix4fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix4fv(location:
WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun useProgram(program:
WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun vertexAttrib1f(index: Int, x:
Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun vertexAttrib2f(index: Int, x: Float, y: Float)\n
fun vertexAttrib2fv(index: Int, values: dynamic)\n fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun
vertexAttrib3fv(index: Int, values: dynamic)\n fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n
fun vertexAttrib4fv(index:
Int, values: dynamic)\n fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int,
offset: Int)\n fun viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion object {\n val
DEPTH_BUFFER_BIT: Int\n val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n
val POINTS: Int\n val LINES: Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val
TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n
val ONE: Int\n val SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA:
Int\n val ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val
ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n
val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val
BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA:
Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT: Int\n val
BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val
BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR:

```

Int\n val CONSTANT\_ALPHA: Int\n val ONE\_MINUS\_CONSTANT\_ALPHA: Int\n val  
 BLEND\_COLOR: Int\n val ARRAY\_BUFFER: Int\n val ELEMENT\_ARRAY\_BUFFER: Int\n val  
 ARRAY\_BUFFER\_BINDING: Int\n val ELEMENT\_ARRAY\_BUFFER\_BINDING: Int\n val  
 STREAM\_DRAW: Int\n val STATIC\_DRAW: Int\n val DYNAMIC\_DRAW: Int\n val  
 BUFFER\_SIZE: Int\n val BUFFER\_USAGE: Int\n val CURRENT\_VERTEX\_ATTRIB: Int\n val  
 FRONT: Int\n val BACK: Int\n val FRONT\_AND\_BACK: Int\n val CULL\_FACE: Int\n val  
 BLEND: Int\n val DITHER: Int\n val STENCIL\_TEST: Int\n val DEPTH\_TEST: Int\n val  
 SCISSOR\_TEST: Int\n val  
 POLYGON\_OFFSET\_FILL: Int\n val SAMPLE\_ALPHA\_TO\_COVERAGE: Int\n val  
 SAMPLE\_COVERAGE: Int\n val NO\_ERROR: Int\n val INVALID\_ENUM: Int\n val  
 INVALID\_VALUE: Int\n val INVALID\_OPERATION: Int\n val OUT\_OF\_MEMORY: Int\n val CW:  
 Int\n val CCW: Int\n val LINE\_WIDTH: Int\n val ALIASED\_POINT\_SIZE\_RANGE: Int\n val  
 ALIASED\_LINE\_WIDTH\_RANGE: Int\n val CULL\_FACE\_MODE: Int\n val FRONT\_FACE: Int\n  
 val DEPTH\_RANGE: Int\n val DEPTH\_WRITEMASK: Int\n val DEPTH\_CLEAR\_VALUE: Int\n val  
 DEPTH\_FUNC: Int\n val STENCIL\_CLEAR\_VALUE: Int\n val STENCIL\_FUNC: Int\n val  
 STENCIL\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_PASS:  
 Int\n val STENCIL\_REF: Int\n val STENCIL\_VALUE\_MASK: Int\n val STENCIL\_WRITEMASK:  
 Int\n val STENCIL\_BACK\_FUNC: Int\n val STENCIL\_BACK\_FAIL: Int\n val  
 STENCIL\_BACK\_PASS\_DEPTH\_FAIL:  
 Int\n val STENCIL\_BACK\_PASS\_DEPTH\_PASS: Int\n val STENCIL\_BACK\_REF: Int\n val  
 STENCIL\_BACK\_VALUE\_MASK: Int\n val STENCIL\_BACK\_WRITEMASK: Int\n val VIEWPORT:  
 Int\n val SCISSOR\_BOX: Int\n val COLOR\_CLEAR\_VALUE: Int\n val COLOR\_WRITEMASK:  
 Int\n val UNPACK\_ALIGNMENT: Int\n val PACK\_ALIGNMENT: Int\n val  
 MAX\_TEXTURE\_SIZE: Int\n val MAX\_VIEWPORT\_DIMS: Int\n val SUBPIXEL\_BITS: Int\n val  
 RED\_BITS: Int\n val GREEN\_BITS: Int\n val BLUE\_BITS: Int\n val ALPHA\_BITS: Int\n val  
 DEPTH\_BITS: Int\n val STENCIL\_BITS: Int\n val POLYGON\_OFFSET\_UNITS: Int\n val  
 POLYGON\_OFFSET\_FACTOR: Int\n val TEXTURE\_BINDING\_2D: Int\n val SAMPLE\_BUFFERS:  
 Int\n val SAMPLES: Int\n val SAMPLE\_COVERAGE\_VALUE: Int\n val  
 SAMPLE\_COVERAGE\_INVERT: Int\n val COMPRESSED\_TEXTURE\_FORMATS: Int\n val  
 DONT\_CARE: Int\n val FASTEST:  
 Int\n val NICEST: Int\n val GENERATE\_MIPMAP\_HINT: Int\n val BYTE: Int\n val  
 UNSIGNED\_BYTE: Int\n val SHORT: Int\n val UNSIGNED\_SHORT: Int\n val INT: Int\n val  
 UNSIGNED\_INT: Int\n val FLOAT: Int\n val DEPTH\_COMPONENT: Int\n val ALPHA: Int\n  
 val RGB: Int\n val RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE\_ALPHA: Int\n val  
 UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n val FRAGMENT\_SHADER: Int\n val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n val  
 MAX\_VARYING\_VECTORS: Int\n val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n val SHADER\_TYPE: Int\n val DELETE\_STATUS:  
 Int\n val LINK\_STATUS:  
 Int\n val VALIDATE\_STATUS: Int\n val ATTACHED\_SHADERS: Int\n val ACTIVE\_UNIFORMS:  
 Int\n val ACTIVE\_ATTRIBUTES: Int\n val SHADING\_LANGUAGE\_VERSION: Int\n val  
 CURRENT\_PROGRAM: Int\n val NEVER: Int\n val LESS: Int\n val EQUAL: Int\n val  
 LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n val GEQUAL: Int\n val ALWAYS:  
 Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n val DECR: Int\n val INVERT:  
 Int\n val INCR\_WRAP: Int\n val DECR\_WRAP: Int\n val VENDOR: Int\n val RENDERER: Int\n  
 val VERSION: Int\n val NEAREST: Int\n val LINEAR: Int\n val



NEAREST\_MIPMAP\_NEAREST: Int\n val LINEAR\_MIPMAP\_NEAREST: Int\n val  
 NEAREST\_MIPMAP\_LINEAR: Int\n val LINEAR\_MIPMAP\_LINEAR: Int\n val  
 TEXTURE\_MAG\_FILTER: Int\n val TEXTURE\_MIN\_FILTER: Int\n val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n val TEXTURE\_2D: Int\n val TEXTURE: Int\n val  
 TEXTURE\_CUBE\_MAP: Int\n val TEXTURE\_BINDING\_CUBE\_MAP: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n val  
 MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val  
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val  
 TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val  
 TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val  
 TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val  
 TEXTURE18:  
 Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val TEXTURE22:  
 Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val TEXTURE26:  
 Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val TEXTURE30:  
 Int\n val TEXTURE31: Int\n val ACTIVE\_TEXTURE: Int\n val REPEAT: Int\n val  
 CLAMP\_TO\_EDGE: Int\n val MIRRORED\_REPEAT: Int\n val FLOAT\_VEC2: Int\n val  
 FLOAT\_VEC3: Int\n val FLOAT\_VEC4: Int\n val INT\_VEC2: Int\n val INT\_VEC3: Int\n val  
 INT\_VEC4: Int\n val BOOL: Int\n val BOOL\_VEC2: Int\n val BOOL\_VEC3: Int\n val  
 BOOL\_VEC4: Int\n val FLOAT\_MAT2: Int\n val FLOAT\_MAT3: Int\n val FLOAT\_MAT4: Int\n  
 val SAMPLER\_2D: Int\n val SAMPLER\_CUBE: Int\n val VERTEX\_ATTRIB\_ARRAY\_ENABLED:  
 Int\n val VERTEX\_ATTRIB\_ARRAY\_SIZE:  
 Int\n val VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n val VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n  
 val VERTEX\_ATTRIB\_ARRAY\_NORMALIZED: Int\n val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n  
 val VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING: Int\n val  
 IMPLEMENTATION\_COLOR\_READ\_TYPE: Int\n val IMPLEMENTATION\_COLOR\_READ\_FORMAT:  
 Int\n val COMPILE\_STATUS: Int\n val LOW\_FLOAT: Int\n val MEDIUM\_FLOAT: Int\n val  
 HIGH\_FLOAT: Int\n val LOW\_INT: Int\n val MEDIUM\_INT: Int\n val HIGH\_INT: Int\n val  
 FRAMEBUFFER: Int\n val RENDERBUFFER: Int\n val RGBA4: Int\n val RGB5\_A1: Int\n val  
 RGB565: Int\n val DEPTH\_COMPONENT16: Int\n val STENCIL\_INDEX: Int\n val  
 STENCIL\_INDEX8: Int\n val DEPTH\_STENCIL: Int\n val RENDERBUFFER\_WIDTH: Int\n val  
 RENDERBUFFER\_HEIGHT: Int\n val RENDERBUFFER\_INTERNAL\_FORMAT: Int\n val  
 RENDERBUFFER\_RED\_SIZE: Int\n val RENDERBUFFER\_GREEN\_SIZE:  
 Int\n val RENDERBUFFER\_BLUE\_SIZE: Int\n val RENDERBUFFER\_ALPHA\_SIZE: Int\n val  
 RENDERBUFFER\_DEPTH\_SIZE: Int\n val RENDERBUFFER\_STENCIL\_SIZE: Int\n val  
 FRAMEBUFFER\_ATTACHMENT\_OBJECT\_TYPE: Int\n val  
 FRAMEBUFFER\_ATTACHMENT\_OBJECT\_NAME: Int\n val  
 FRAMEBUFFER\_ATTACHMENT\_TEXTURE\_LEVEL: Int\n val  
 FRAMEBUFFER\_ATTACHMENT\_TEXTURE\_CUBE\_MAP\_FACE: Int\n val COLOR\_ATTACHMENT0:  
 Int\n val DEPTH\_ATTACHMENT: Int\n val STENCIL\_ATTACHMENT: Int\n val  
 DEPTH\_STENCIL\_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER\_COMPLETE: Int\n  
 val FRAMEBUFFER\_INCOMPLETE\_ATTACHMENT: Int\n val  
 FRAMEBUFFER\_INCOMPLETE\_MISSING\_ATTACHMENT: Int\n val  
 FRAMEBUFFER\_INCOMPLETE\_DIMENSIONS: Int\n val FRAMEBUFFER\_UNSUPPORTED: Int\n  
 val FRAMEBUFFER\_BINDING: Int\n val RENDERBUFFER\_BINDING: Int\n val  
 MAX\_RENDERBUFFER\_SIZE: Int\n val INVALID\_FRAMEBUFFER\_OPERATION: Int\n

```

    val UNPACK_FLIP_Y_WEBGL: Int\n    val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n    val
CONTEXT_LOST_WEBGL: Int\n    val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n    val
BROWSER_DEFAULT_WEBGL: Int\n    }\n}\n\n/**\n * Exposes the JavaScript
[WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n
*\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n
companion object {\n    val DEPTH_BUFFER_BIT: Int\n    val STENCIL_BUFFER_BIT: Int\n    val
COLOR_BUFFER_BIT: Int\n    val POINTS: Int\n    val LINES: Int\n    val LINE_LOOP: Int\n    val
LINE_STRIP: Int\n    val TRIANGLES: Int\n    val TRIANGLE_STRIP: Int\n    val TRIANGLE_FAN:
Int\n    val ZERO: Int\n    val ONE: Int\n    val SRC_COLOR: Int\n    val ONE_MINUS_SRC_COLOR:
Int\n    val SRC_ALPHA: Int\n    val ONE_MINUS_SRC_ALPHA: Int\n    val DST_ALPHA: Int\n
    val ONE_MINUS_DST_ALPHA: Int\n    val DST_COLOR: Int\n    val ONE_MINUS_DST_COLOR:
Int\n    val SRC_ALPHA_SATURATE: Int\n    val FUNC_ADD: Int\n    val BLEND_EQUATION: Int\n
    val BLEND_EQUATION_RGB: Int\n    val BLEND_EQUATION_ALPHA: Int\n    val FUNC_SUBTRACT:
Int\n    val FUNC_REVERSE_SUBTRACT: Int\n    val BLEND_DST_RGB: Int\n    val
BLEND_SRC_RGB: Int\n    val BLEND_DST_ALPHA: Int\n    val BLEND_SRC_ALPHA: Int\n    val
CONSTANT_COLOR: Int\n    val ONE_MINUS_CONSTANT_COLOR: Int\n    val CONSTANT_ALPHA:
Int\n    val ONE_MINUS_CONSTANT_ALPHA: Int\n    val BLEND_COLOR: Int\n    val
ARRAY_BUFFER: Int\n    val ELEMENT_ARRAY_BUFFER: Int\n    val ARRAY_BUFFER_BINDING:
Int\n    val ELEMENT_ARRAY_BUFFER_BINDING: Int\n    val STREAM_DRAW: Int\n    val
STATIC_DRAW: Int\n    val DYNAMIC_DRAW: Int\n    val BUFFER_SIZE: Int\n    val
BUFFER_USAGE: Int\n    val CURRENT_VERTEX_ATTRIB:
Int\n    val FRONT: Int\n    val BACK: Int\n    val FRONT_AND_BACK: Int\n    val CULL_FACE: Int\n
    val BLEND: Int\n    val DITHER: Int\n    val STENCIL_TEST: Int\n    val DEPTH_TEST: Int\n    val
SCISSOR_TEST: Int\n    val POLYGON_OFFSET_FILL: Int\n    val SAMPLE_ALPHA_TO_COVERAGE:
Int\n    val SAMPLE_COVERAGE: Int\n    val NO_ERROR: Int\n    val INVALID_ENUM: Int\n    val
INVALID_VALUE: Int\n    val INVALID_OPERATION: Int\n    val OUT_OF_MEMORY: Int\n    val CW:
Int\n    val CCW: Int\n    val LINE_WIDTH: Int\n    val ALIASED_POINT_SIZE_RANGE: Int\n    val
ALIASED_LINE_WIDTH_RANGE: Int\n    val CULL_FACE_MODE: Int\n    val FRONT_FACE: Int\n
    val DEPTH_RANGE: Int\n    val DEPTH_WRITEMASK: Int\n    val DEPTH_CLEAR_VALUE: Int\n    val
DEPTH_FUNC: Int\n    val STENCIL_CLEAR_VALUE: Int\n    val STENCIL_FUNC: Int\n    val
STENCIL_FAIL: Int\n    val STENCIL_PASS_DEPTH_FAIL:
Int\n    val STENCIL_PASS_DEPTH_PASS: Int\n    val STENCIL_REF: Int\n    val
STENCIL_VALUE_MASK: Int\n    val STENCIL_WRITEMASK: Int\n    val STENCIL_BACK_FUNC:
Int\n    val STENCIL_BACK_FAIL: Int\n    val STENCIL_BACK_PASS_DEPTH_FAIL: Int\n    val
STENCIL_BACK_PASS_DEPTH_PASS: Int\n    val STENCIL_BACK_REF: Int\n    val
STENCIL_BACK_VALUE_MASK: Int\n    val STENCIL_BACK_WRITEMASK: Int\n    val VIEWPORT:
Int\n    val SCISSOR_BOX: Int\n    val COLOR_CLEAR_VALUE: Int\n    val COLOR_WRITEMASK:
Int\n    val UNPACK_ALIGNMENT: Int\n    val PACK_ALIGNMENT: Int\n    val
MAX_TEXTURE_SIZE: Int\n    val MAX_VIEWPORT_DIMS: Int\n    val SUBPIXEL_BITS: Int\n    val
RED_BITS: Int\n    val GREEN_BITS: Int\n    val BLUE_BITS: Int\n    val ALPHA_BITS: Int\n    val
DEPTH_BITS: Int\n    val STENCIL_BITS: Int\n    val POLYGON_OFFSET_UNITS: Int\n    val
POLYGON_OFFSET_FACTOR:
Int\n    val TEXTURE_BINDING_2D: Int\n    val SAMPLE_BUFFERS: Int\n    val SAMPLES: Int\n
    val SAMPLE_COVERAGE_VALUE: Int\n    val SAMPLE_COVERAGE_INVERT: Int\n    val
COMPRESSED_TEXTURE_FORMATS: Int\n    val DONT_CARE: Int\n    val FASTEST: Int\n    val
NICEST: Int\n    val GENERATE_MIPMAP_HINT: Int\n    val BYTE: Int\n    val UNSIGNED_BYTE:
Int\n    val SHORT: Int\n    val UNSIGNED_SHORT: Int\n    val INT: Int\n    val UNSIGNED_INT: Int\n
    val FLOAT: Int\n    val DEPTH_COMPONENT: Int\n    val ALPHA: Int\n    val RGB: Int\n    val

```

RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE\_ALPHA: Int\n val  
 UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n val FRAGMENT\_SHADER: Int\n val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n val  
 MAX\_VARYING\_VECTORS:  
 Int\n val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n val SHADER\_TYPE: Int\n val DELETE\_STATUS:  
 Int\n val LINK\_STATUS: Int\n val VALIDATE\_STATUS: Int\n val ATTACHED\_SHADERS: Int\n  
 val ACTIVE\_UNIFORMS: Int\n val ACTIVE\_ATTRIBUTES: Int\n val  
 SHADING\_LANGUAGE\_VERSION: Int\n val CURRENT\_PROGRAM: Int\n val NEVER: Int\n val  
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n  
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n  
 val DECR: Int\n val INVERT: Int\n val INCR\_WRAP: Int\n val DECR\_WRAP: Int\n val  
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR:  
 Int\n val NEAREST\_MIPMAP\_NEAREST: Int\n val LINEAR\_MIPMAP\_NEAREST: Int\n val  
 NEAREST\_MIPMAP\_LINEAR: Int\n val LINEAR\_MIPMAP\_LINEAR: Int\n val  
 TEXTURE\_MAG\_FILTER: Int\n val TEXTURE\_MIN\_FILTER: Int\n val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n val TEXTURE\_2D: Int\n val TEXTURE: Int\n val  
 TEXTURE\_CUBE\_MAP: Int\n val TEXTURE\_BINDING\_CUBE\_MAP: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n val  
 MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val  
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val  
 TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n  
 val TEXTURE9: Int\n val TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n  
 val TEXTURE13: Int\n val TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n  
 val TEXTURE17: Int\n val TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n  
 val TEXTURE21: Int\n val TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n  
 val TEXTURE25: Int\n val TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n  
 val TEXTURE29: Int\n val TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE\_TEXTURE:  
 Int\n val REPEAT: Int\n val CLAMP\_TO\_EDGE: Int\n val MIRRORED\_REPEAT: Int\n val  
 FLOAT\_VEC2: Int\n val FLOAT\_VEC3: Int\n val FLOAT\_VEC4: Int\n val INT\_VEC2: Int\n val  
 INT\_VEC3: Int\n val INT\_VEC4: Int\n val BOOL: Int\n val BOOL\_VEC2: Int\n val  
 BOOL\_VEC3: Int\n val BOOL\_VEC4: Int\n val FLOAT\_MAT2: Int\n val FLOAT\_MAT3: Int\n  
 val FLOAT\_MAT4: Int\n val SAMPLER\_2D: Int\n val SAMPLER\_CUBE: Int\n val  
 VERTEX\_ATTRIB\_ARRAY\_ENABLED: Int\n val VERTEX\_ATTRIB\_ARRAY\_SIZE: Int\n val  
 VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n val VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n val  
 VERTEX\_ATTRIB\_ARRAY\_NORMALIZED: Int\n val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n  
 val VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING: Int\n val  
 IMPLEMENTATION\_COLOR\_READ\_TYPE: Int\n val IMPLEMENTATION\_COLOR\_READ\_FORMAT:  
 Int\n val COMPILE\_STATUS: Int\n val LOW\_FLOAT: Int\n val MEDIUM\_FLOAT: Int\n val  
 HIGH\_FLOAT: Int\n val LOW\_INT: Int\n val MEDIUM\_INT: Int\n val HIGH\_INT: Int\n val  
 FRAMEBUFFER: Int\n val RENDERBUFFER: Int\n val RGBA4: Int\n val RGB5\_A1: Int\n val  
 RGB565: Int\n val DEPTH\_COMPONENT16: Int\n  
 val STENCIL\_INDEX: Int\n val STENCIL\_INDEX8: Int\n val DEPTH\_STENCIL: Int\n val  
 RENDERBUFFER\_WIDTH: Int\n val RENDERBUFFER\_HEIGHT: Int\n val

```

RENDERBUFFER_INTERNAL_FORMAT: Int\n    val RENDERBUFFER_RED_SIZE: Int\n    val
RENDERBUFFER_GREEN_SIZE: Int\n    val RENDERBUFFER_BLUE_SIZE: Int\n    val
RENDERBUFFER_ALPHA_SIZE: Int\n    val RENDERBUFFER_DEPTH_SIZE: Int\n    val
RENDERBUFFER_STENCIL_SIZE: Int\n    val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n    val COLOR_ATTACHMENT0:
Int\n    val DEPTH_ATTACHMENT: Int\n    val STENCIL_ATTACHMENT: Int\n    val
DEPTH_STENCIL_ATTACHMENT: Int\n    val NONE: Int\n    val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT:
Int\n    val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n    val
FRAMEBUFFER_UNSUPPORTED: Int\n    val FRAMEBUFFER_BINDING: Int\n    val
RENDERBUFFER_BINDING: Int\n    val MAX_RENDERBUFFER_SIZE: Int\n    val
INVALID_FRAMEBUFFER_OPERATION: Int\n    val UNPACK_FLIP_Y_WEBGL: Int\n    val
UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n    val CONTEXT_LOST_WEBGL: Int\n    val
UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n    val BROWSER_DEFAULT_WEBGL: Int\n
}\n}\n\n/**\n * Exposes the JavaScript
[WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\n
*/\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event {\n    open val statusMessage: String\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface WebGLContextEventInit
: EventInit {\n    var statusMessage: String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
WebGLContextEventInit(statusMessage: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): WebGLContextEventInit {\n    val o = js("{}")\n    o["statusMessage"] =
statusMessage\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n
return o}\n}\n\n/**\n * Exposes the JavaScript
[ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\n
*/\npublic external open
class ArrayBuffer(length: Int) : BufferDataSource {\n    open val byteLength: Int\n    fun slice(begin: Int, end: Int =
definedExternally): ArrayBuffer\n\n    companion object {\n        fun isView(value: Any?): Boolean\n    }\n}\n}\n\n/**\n * Exposes the JavaScript
[ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin\n
*/\npublic external interface ArrayBufferView : BufferDataSource {\n    val buffer: ArrayBuffer\n    val byteOffset: Int\n    val
byteLength: Int\n}\n}\n\n/**\n * Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\n
*/\npublic external open class
Int8Array : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array: Int8Array)\n    constructor(array:
Array<Byte>)\n    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int =
definedExternally)\n    open val length: Int\n    override val buffer: ArrayBuffer\n    override val byteOffset: Int\n
override val byteLength: Int\n    fun set(array: Int8Array, offset: Int = definedExternally)\n    fun set(array:
Array<Byte>, offset: Int = definedExternally)\n    fun subarray(start: Int, end: Int): Int8Array\n\n    companion
object {\n        val BYTES_PER_ELEMENT:
Int\n    }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.set(index: Int,

```

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value: Byte) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[UInt8Array](https://developer.mozilla.org/en/docs/Web/API/UInt8Array) to Kotlin \n * \n\npublic external open class
UInt8Array : ArrayBufferView { \n  constructor(length: Int) \n  constructor(array: UInt8Array) \n
constructor(array: Array<Byte>) \n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally) \n  open val length: Int \n  override val buffer: ArrayBuffer \n  override val byteOffset:
Int \n  override val byteLength: Int \n  fun set(array: UInt8Array, offset: Int = definedExternally) \n  fun set(array:
Array<Byte>, offset:
Int = definedExternally) \n  fun subarray(start: Int, end: Int): UInt8Array \n\n  companion object { \n    val
BYTES_PER_ELEMENT: Int \n    } \n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline operator fun UInt8Array.get(index: Int):
Byte = asDynamic()[index] \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline operator fun UInt8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[UInt8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/UInt8ClampedArray) to Kotlin \n * \n\npublic
external open class UInt8ClampedArray : ArrayBufferView { \n  constructor(length: Int) \n  constructor(array:
UInt8ClampedArray) \n  constructor(array: Array<Byte>) \n  constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally) \n  open val length: Int \n  override val buffer: ArrayBuffer \n
override
val byteOffset: Int \n  override val byteLength: Int \n  fun set(array: UInt8ClampedArray, offset: Int =
definedExternally) \n  fun set(array: Array<Byte>, offset: Int = definedExternally) \n  fun subarray(start: Int, end:
Int): UInt8ClampedArray \n\n  companion object { \n    val BYTES_PER_ELEMENT: Int \n
} \n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline operator fun
UInt8ClampedArray.get(index: Int): Byte = asDynamic()[index] \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline operator fun
UInt8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin \n * \n\npublic external open class
Int16Array : ArrayBufferView { \n  constructor(length: Int) \n  constructor(array: Int16Array) \n
constructor(array: Array<Short>) \n  constructor(buffer:
ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally) \n  open val length: Int \n
override val buffer: ArrayBuffer \n  override val byteOffset: Int \n  override val byteLength: Int \n  fun set(array:
Int16Array, offset: Int = definedExternally) \n  fun set(array: Array<Short>, offset: Int = definedExternally) \n  fun
subarray(start: Int, end: Int): Int16Array \n\n  companion object { \n    val BYTES_PER_ELEMENT: Int \n
} \n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline operator fun Int16Array.get(index: Int):
Short = asDynamic()[index] \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline operator fun Int16Array.set(index: Int,
value: Short) { asDynamic()[index] = value } \n\n/** \n * Exposes the JavaScript
[UInt16Array](https://developer.mozilla.org/en/docs/Web/API/UInt16Array) to Kotlin \n * \n\npublic external open
class UInt16Array
: ArrayBufferView { \n  constructor(length: Int) \n  constructor(array: UInt16Array) \n  constructor(array:
Array<Short>) \n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int =
definedExternally) \n  open val length: Int \n  override val buffer: ArrayBuffer \n  override val byteOffset: Int \n
override val byteLength: Int \n  fun set(array: UInt16Array, offset: Int = definedExternally) \n  fun set(array:
Array<Short>, offset: Int = definedExternally) \n  fun subarray(start: Int, end: Int): UInt16Array \n\n  companion
object { \n    val BYTES_PER_ELEMENT: Int \n    } \n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline operator fun UInt16Array.get(index: Int):
Short = asDynamic()[index] \n\n@Suppress("INVISIBLE_REFERENCE",

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\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes
the JavaScript [Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n *\npublic
external open class Int32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int32Array)\n
  constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n
  override val byteLength: Int\n  fun set(array: Int32Array, offset: Int = definedExternally)\n  fun set(array:
Array<Int>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Int32Array\n\n  companion object
{\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress(\ "INVISIBLE_REFERENCE" ),
\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int
= asDynamic()[index]\n\n@Suppress(\ "INVISIBLE_REFERENCE" ),
\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the
JavaScript [Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n *\npublic
external open class Uint32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array:
Uint32Array)\n  constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n
  override val byteOffset: Int\n  override val byteLength: Int\n  fun set(array: Uint32Array, offset: Int =
definedExternally)\n  fun set(array: Array<Int>, offset: Int = definedExternally)\n  fun subarray(start: Int, end:
Int): Uint32Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress(\ "INVISIBLE_REFERENCE" ),
\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline
operator fun Uint32Array.get(index: Int): Int = asDynamic()[index]\n\n@Suppress(\ "INVISIBLE_REFERENCE" ),
\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n *\npublic external open
class Float32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float32Array)\n
  constructor(array: Array<Float>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float32Array, offset: Int = definedExternally)\n  fun
set(array: Array<Float>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Float32Array\n\n
  companion object
{\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress(\ "INVISIBLE_REFERENCE" ),
\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int):
Float = asDynamic()[index]\n\n@Suppress(\ "INVISIBLE_REFERENCE" ),
\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.set(index: Int,
value: Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n *\npublic external open
class Float64Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float64Array)\n
  constructor(array: Array<Double>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float64Array, offset: Int = definedExternally)\n  fun
set(array: Array<Double>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int):
Float64Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress(\ "INVISIBLE_REFERENCE" ),
\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int):
Double = asDynamic()[index]\n\n@Suppress(\ "INVISIBLE_REFERENCE" ),
\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int,

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value: Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n *\npublic external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n  override val
byteLength: Int\n  fun getInt8(byteOffset: Int): Byte\n  fun getUint8(byteOffset:
Int): Byte\n  fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n  fun
getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n  fun getInt32(byteOffset: Int,
littleEndian: Boolean = definedExternally): Int\n  fun getUint32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Int\n  fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n  fun
getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double\n  fun setInt8(byteOffset: Int, value:
Byte)\n  fun setUint8(byteOffset: Int, value: Byte)\n  fun setInt16(byteOffset: Int, value: Short, littleEndian:
Boolean = definedExternally)\n  fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean =
definedExternally)\n  fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n  fun
setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n
  fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally)\n  fun
setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally)\n}\n\npublic external interface
BufferDataSource\n\npublic external interface TexImageSource", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface
ClipboardEventInit : EventInit {\n  var clipboardData: DataTransfer? /* = null */\n  get() = definedExternally\n
  set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\n\npublic
inline fun ClipboardEventInit(clipboardData: DataTransfer? = null, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): ClipboardEventInit {\n  val o = js("{}")\n  o["clipboardData"] =
clipboardData\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n *\npublic external
open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n  open
val clipboardData: DataTransfer?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to
Kotlin\n *\npublic external abstract class Clipboard : EventTarget
{\n  fun read(): Promise<DataTransfer>\n  fun readText(): Promise<String>\n  fun write(data: DataTransfer):
Promise<Unit>\n  fun writeText(data: String): Promise<Unit>\n}\n\npublic external interface
ClipboardPermissionDescriptor {\n  var allowWithoutGesture: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\n\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n  val
o = js("{}")\n  o["allowWithoutGesture"] = allowWithoutGesture\n  return o\n}", "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.css\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\npublic external
abstract class MediaList : ItemArrayLike<String> {\n  open var mediaText: String\n  fun
appendMedium(medium: String)\n  fun deleteMedium(medium: String)\n  override fun item(index: Int):
String?\n}\n\n@Suppress("INVISIBLE_REFERENCE",

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\ "INVISIBLE_MEMBER" )\n @kotlin.internal.InlineOnly\n public inline operator fun MediaList.get(index: Int):
String? = asDynamic()[index]\n\n /**\n * Exposes the JavaScript
[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n\n *\n public external abstract
class StyleSheet {\n\n open val type: String\n\n open val href: String?\n\n open val ownerNode:
UnionElementOrProcessingInstruction?\n\n open val parentStyleSheet: StyleSheet?\n\n open val title: String?\n\n
open val media: MediaList\n\n open var disabled: Boolean\n\n}\n\n /**\n * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet)
to Kotlin\n\n *\n public external abstract class CSSStyleSheet : StyleSheet {\n\n open val ownerRule: CSSRule?\n\n
open val cssRules: CSSRuleList\n\n fun insertRule(rule: String, index: Int): Int\n\n fun deleteRule(index:
Int)\n\n}\n\n /**\n * Exposes the JavaScript
[StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n\n *\n public external
abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n\n override fun item(index: Int):
StyleSheet?\n\n}\n\n @Suppress("INVISIBLE_REFERENCE",
\ "INVISIBLE_MEMBER" )\n @kotlin.internal.InlineOnly\n public inline operator fun StyleSheetList.get(index: Int):
StyleSheet? = asDynamic()[index]\n\n /**\n * Exposes the JavaScript
[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n\n *\n public external interface
LinkStyle {\n\n val sheet: StyleSheet?\n\n get() = definedExternally\n\n}\n\n /**\n * Exposes the JavaScript
[CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList)
to Kotlin\n\n *\n public external abstract class CSSRuleList : ItemArrayLike<CSSRule> {\n\n override fun
item(index: Int): CSSRule?\n\n}\n\n @Suppress("INVISIBLE_REFERENCE",
\ "INVISIBLE_MEMBER" )\n @kotlin.internal.InlineOnly\n public inline operator fun CSSRuleList.get(index: Int):
CSSRule? = asDynamic()[index]\n\n /**\n * Exposes the JavaScript
[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n\n *\n public external abstract class
CSSRule {\n\n open val type: Short\n\n open var cssText: String\n\n open val parentRule: CSSRule?\n\n open val
parentStyleSheet: CSSStyleSheet?\n\n\n companion object {\n\n val STYLE_RULE: Short\n\n val
CHARSET_RULE: Short\n\n val IMPORT_RULE: Short\n\n val MEDIA_RULE: Short\n\n val
FONT_FACE_RULE: Short\n\n val PAGE_RULE: Short\n\n val MARGIN_RULE: Short\n\n val
NAMESPACE_RULE: Short\n\n }\n\n}\n\n /**\n * Exposes the JavaScript
[CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule)
to Kotlin\n\n *\n public external abstract class CSSStyleRule : CSSRule {\n\n open var selectorText: String\n\n open
val style: CSSStyleDeclaration\n\n\n companion object {\n\n val STYLE_RULE: Short\n\n val
CHARSET_RULE: Short\n\n val IMPORT_RULE: Short\n\n val MEDIA_RULE: Short\n\n val
FONT_FACE_RULE: Short\n\n val PAGE_RULE: Short\n\n val MARGIN_RULE: Short\n\n val
NAMESPACE_RULE: Short\n\n }\n\n}\n\n public external abstract class CSSImportRule : CSSRule {\n\n open val
href: String\n\n open val media: MediaList\n\n open val styleSheet: CSSStyleSheet\n\n\n companion object {\n\n
val STYLE_RULE: Short\n\n val CHARSET_RULE: Short\n\n val IMPORT_RULE: Short\n\n val
MEDIA_RULE: Short\n\n val FONT_FACE_RULE: Short\n\n val PAGE_RULE: Short\n\n val
MARGIN_RULE: Short\n\n val NAMESPACE_RULE: Short\n\n }\n\n}\n\n /**\n * Exposes the JavaScript
[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule)
to Kotlin\n\n *\n public external abstract class CSSGroupingRule : CSSRule {\n\n open val cssRules: CSSRuleList\n\n
fun insertRule(rule: String, index: Int): Int\n\n fun deleteRule(index: Int)\n\n\n companion object {\n\n val
STYLE_RULE: Short\n\n val CHARSET_RULE: Short\n\n val IMPORT_RULE: Short\n\n val
MEDIA_RULE: Short\n\n val FONT_FACE_RULE: Short\n\n val PAGE_RULE: Short\n\n val
MARGIN_RULE: Short\n\n val NAMESPACE_RULE: Short\n\n }\n\n}\n\n /**\n * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n\n *\n public external
abstract class CSSMediaRule : CSSGroupingRule {\n\n open val media: MediaList\n\n\n companion object {\n\n
val STYLE_RULE: Short\n\n val CHARSET_RULE: Short\n\n val IMPORT_RULE: Short\n\n val
MEDIA_RULE: Short\n\n val FONT_FACE_RULE: Short\n\n val PAGE_RULE: Short\n\n val

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MARGIN_RULE: Short\n
    val NAMESPACE_RULE: Short\n } \n } \n \n /** \n * Exposes the JavaScript
[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin \n * \n \n public external
abstract class CSSPageRule : CSSGroupingRule { \n    open var selectorText: String \n    open val style:
CSSStyleDeclaration \n \n    companion object { \n        val STYLE_RULE: Short \n        val CHARSET_RULE:
Short \n        val IMPORT_RULE: Short \n        val MEDIA_RULE: Short \n        val FONT_FACE_RULE: Short \n
        val PAGE_RULE: Short \n        val MARGIN_RULE: Short \n        val NAMESPACE_RULE: Short \n
    } \n } \n \n public external abstract class CSSMarginRule : CSSRule { \n    open val name: String \n    open val style:
CSSStyleDeclaration \n \n    companion object { \n        val STYLE_RULE: Short \n        val CHARSET_RULE:
Short \n        val IMPORT_RULE: Short \n        val MEDIA_RULE: Short \n        val FONT_FACE_RULE: Short \n
        val PAGE_RULE: Short \n        val MARGIN_RULE: Short \n        val NAMESPACE_RULE:
Short \n    } \n } \n \n /** \n * Exposes the JavaScript
[CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin \n * \n \n public
external abstract class CSSNamespaceRule : CSSRule { \n    open val namespaceURI: String \n    open val prefix:
String \n \n    companion object { \n        val STYLE_RULE: Short \n        val CHARSET_RULE: Short \n        val
IMPORT_RULE: Short \n        val MEDIA_RULE: Short \n        val FONT_FACE_RULE: Short \n        val
PAGE_RULE: Short \n        val MARGIN_RULE: Short \n        val NAMESPACE_RULE: Short \n    } \n } \n \n /** \n *
Exposes the JavaScript
[CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin \n * \n \n public
external abstract class CSSStyleDeclaration : ItemArrayLike<String> { \n    open var cssText: String \n    open val
parentRule: CSSRule? \n    open var cssFloat: String \n    open var alignContent: String \n    open var alignItems:
String \n    open var alignSelf: String \n    open
var animation: String \n    open var animationDelay: String \n    open var animationDirection: String \n    open var
animationDuration: String \n    open var animationFillMode: String \n    open var animationIterationCount: String \n
    open var animationName: String \n    open var animationPlayState: String \n    open var animationTimingFunction:
String \n    open var backfaceVisibility: String \n    open var background: String \n    open var backgroundAttachment:
String \n    open var backgroundClip: String \n    open var backgroundColor: String \n    open var backgroundImage:
String \n    open var backgroundOrigin: String \n    open var backgroundPosition: String \n    open var
backgroundRepeat: String \n    open var backgroundSize: String \n    open var border: String \n    open var
borderBottom: String \n    open var borderBottomColor: String \n    open var borderBottomLeftRadius: String \n
    open var borderBottomRightRadius: String \n    open var borderBottomStyle: String \n    open var
borderBottomWidth:
String \n    open var borderCollapse: String \n    open var borderColor: String \n    open var borderImage: String \n
    open var borderImageOutset: String \n    open var borderImageRepeat: String \n    open var borderImageSlice:
String \n    open var borderImageSource: String \n    open var borderImageWidth: String \n    open var borderLeft:
String \n    open var borderLeftColor: String \n    open var borderLeftStyle: String \n    open var borderLeftWidth:
String \n    open var borderRadius: String \n    open var borderRight: String \n    open var borderRightColor: String \n
    open var borderRightStyle: String \n    open var borderRightWidth: String \n    open var borderSpacing: String \n
    open var borderStyle: String \n    open var borderTop: String \n    open var borderTopColor: String \n    open var
borderTopLeftRadius: String \n    open var borderTopRightRadius: String \n    open var borderTopStyle: String \n
    open var borderTopWidth: String \n    open var borderWidth: String \n    open var bottom:
String \n    open var boxDecorationBreak: String \n    open var boxShadow: String \n    open var boxSizing: String \n
    open var breakAfter: String \n    open var breakBefore: String \n    open var breakInside: String \n    open var
captionSide: String \n    open var clear: String \n    open var clip: String \n    open var color: String \n    open var
columnCount: String \n    open var columnFill: String \n    open var columnGap: String \n    open var columnRule:
String \n    open var columnRuleColor: String \n    open var columnRuleStyle: String \n    open var columnRuleWidth:
String \n    open var columnSpan: String \n    open var columnWidth: String \n    open var columns: String \n    open
var content: String \n    open var counterIncrement: String \n    open var counterReset: String \n    open var cursor:

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String\n open var direction: String\n open var display: String\n open var emptyCells: String\n open var filter: String\n open var flex: String\n open var flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open var fontFamily: String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant: String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak: String\n open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom: String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open var mark: String\n open var markAfter: String\n open var markBefore: String\n open var marks: String\n open var marqueeDirection: String\n open var marqueePlayCount: String\n open var marqueeSpeed: String\n open var marqueeStyle: String\n open var mask: String\n open var maskType: String\n open var maxHeight: String\n open var maxWidth: String\n open var minHeight: String\n open var minWidth: String\n open var navDown: String\n open var navIndex: String\n open var navLeft: String\n open var navRight: String\n open var navUp: String\n open var objectFit: String\n open var objectPosition: String\n open var opacity: String\n open var order: String\n open var orphans: String\n open var outline: String\n open var outlineColor: String\n open var outlineOffset: String\n open var outlineStyle: String\n open var outlineWidth: String\n open var overflowWrap: String\n open var overflowX: String\n open var overflowY: String\n open var padding: String\n open var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n open var paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n open var textCombineUpright: String\n open var text-decoration: String\n open var textDecorationColor: String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent: String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle: String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi: String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var voiceRate: String\n open var voiceStress: String\n open var voiceVolume: String\n open var whiteSpace: String\n open var widows: String\n open var width: String\n open var wordBreak: String\n open var wordSpacing: String\n open var wordWrap: String\n open var writingMode: String\n open var zIndex: String\n open var \_dashed\_attribute: String\n open var \_camel\_cased\_attribute: String\n open var \_webkit\_cased\_attribute: String\n fun getPropertyValue(property: String): String\n fun getPropertyPriority(property: String): String\n fun setProperty(property: String, value: String, priority: String = definedExternally)\n

```

fun setValue(property: String, value: String)\n fun setPropertyPriority(property: String, priority:
String)\n fun removeProperty(property: String): String\n override fun item(index: Int):
String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface
ElementCSSInlineStyle {\n val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript
[CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\n\npublic external abstract class CSS {\n
companion object {\n fun escape(ident: String): String\n }\n}\n\npublic external interface
UnionElementOrProcessingInstruction, \"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.encryptedmedia\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript
[MediaKeySystemConfiguration](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemConfiguration)
to Kotlin\n */\n\npublic external interface MediaKeySystemConfiguration {\n var label: String? /* = \"\" */\n
get() = definedExternally\n set(value) = definedExternally\n var initDataTypes: Array<String>? /* = arrayOf()
*/\n
get() = definedExternally\n set(value) = definedExternally\n var audioCapabilities:
Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n
get() = definedExternally\n set(value) =
definedExternally\n var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n
get() = definedExternally\n set(value) = definedExternally\n
var distinctiveIdentifier: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n
get() =
definedExternally\n set(value) = definedExternally\n var persistentState: MediaKeysRequirement? /* =
MediaKeysRequirement.OPTIONAL */\n
get() = definedExternally\n set(value) = definedExternally\n
var sessionTypes: Array<String>? \n
get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeySystemConfiguration(label:
String? = \"\", initDataTypes: Array<String>? = arrayOf(), audioCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration
{\n val o = js(\"({})\")\n o[\"label\"] = label\n o[\"initDataTypes\"] = initDataTypes\n
o[\"audioCapabilities\"] = audioCapabilities\n o[\"videoCapabilities\"] = videoCapabilities\n
o[\"distinctiveIdentifier\"] = distinctiveIdentifier\n o[\"persistentState\"] = persistentState\n o[\"sessionTypes\"]
= sessionTypes\n return o\n}\n\npublic external interface MediaKeySystemMediaCapability {\n var
contentType: String? /* = \"\" */\n
get() = definedExternally\n set(value) = definedExternally\n var
robustness: String? /* = \"\" */\n
get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaKeySystemMediaCapability(contentType: String? = \"\", robustness: String? = \"\"):
MediaKeySystemMediaCapability {\n val o = js(\"({})\")\n o[\"contentType\"] = contentType\n
o[\"robustness\"] = robustness\n
return o\n}\n\n/**\n * Exposes the JavaScript
[MediaKeySystemAccess](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemAccess) to Kotlin\n
*/\n\npublic external abstract class MediaKeySystemAccess {\n open val keySystem: String\n fun
getConfiguration(): MediaKeySystemConfiguration\n fun createMediaKeys(): Promise<MediaKeys>\n}\n\n/**\n
* Exposes the JavaScript [MediaKeys](https://developer.mozilla.org/en/docs/Web/API/MediaKeys) to Kotlin\n

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*\npublic external abstract class MediaKeys {\n  fun createSession(sessionType: MediaKeySessionType =
definedExternally): MediaKeySession\n  fun setServerCertificate(serverCertificate: dynamic):
Promise<Boolean>\n}\n\n/**\n * Exposes the JavaScript
[MediaKeySession](https://developer.mozilla.org/en/docs/Web/API/MediaKeySession) to Kotlin\n */\npublic
external abstract class MediaKeySession : EventTarget {\n  open val sessionId: String\n  open val expiration:
Double\n  open val closed: Promise<Unit>\n  open val keyStatuses:
MediaKeyStatusMap\n  open var onkeystatuseschange: ((Event) -> dynamic)?\n  open var onmessage:
((MessageEvent) -> dynamic)?\n  fun generateRequest(initDataType: String, initData: dynamic): Promise<Unit>\n
fun load(sessionId: String): Promise<Boolean>\n  fun update(response: dynamic): Promise<Unit>\n  fun close():
Promise<Unit>\n  fun remove(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to Kotlin\n */\npublic
external abstract class MediaKeyStatusMap {\n  open val size: Int\n  fun has(keyId: dynamic): Boolean\n  fun
get(keyId: dynamic): Any?\n}\n\n/**\n * Exposes the JavaScript
[MediaKeyMessageEvent](https://developer.mozilla.org/en/docs/Web/API/MediaKeyMessageEvent) to Kotlin\n
*/\npublic external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) :
Event {\n  open val messageType: MediaKeyMessageType\n  open val message:
ArrayBuffer\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val
AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
MediaKeyMessageEventInit : EventInit {\n  var messageType: MediaKeyMessageType?\n  var message:
ArrayBuffer?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaKeyMessageEventInit(messageType: MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): MediaKeyMessageEventInit {\n  val o =
js(\"({})\")\n  o[\"messageType\"] = messageType\n  o[\"message\"] = message\n  o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\npublic external open class
MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {\n
open val initDataType: String\n
open val initData: ArrayBuffer?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
  }\n}\n\npublic external interface MediaEncryptedEventInit : EventInit {\n  var initDataType: String? /* = \"\" */\n
get() = definedExternally\n  set(value) = definedExternally\n  var initData: ArrayBuffer? /* = null */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaEncryptedEventInit(initDataType: String? = \"\", initData: ArrayBuffer? = null, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {\n  val o = js(\"({})\")\n
o[\"initDataType\"] = initDataType\n  o[\"initData\"] = initData\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"]
= cancelable\n  o[\"composed\"]
= composed\n  return o\n}\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface MediaKeysRequirement {\n  companion object\n}\n\npublic inline val
MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() =
\"required\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() =
\"optional\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = \"not-
allowed\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface MediaKeySessionType {\n  companion object\n}\n\npublic inline val

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MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() =
    \"temporary\".asDynamic().unsafeCast<MediaKeySessionType>()\n\npublic
    inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() =
    \"persistent-license\".asDynamic().unsafeCast<MediaKeySessionType>()\n\n/* please, don't implement this
interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface MediaKeyStatus {\n    companion object\n}\n\npublic inline val
MediaKeyStatus.Companion.USABLE: MediaKeyStatus get() =
    \"usable\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() =
    \"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() =
    \"released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-
restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus
    get() = \"output-downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = \"status-
pending\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = \"internal-
error\".asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface MediaKeyMessageType {\n    companion object\n}\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = \"license-
request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = \"license-
renewal\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = \"license-
release\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic
    inline val MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get()
    = \"individualization-request\".asDynamic().unsafeCast<MediaKeyMessageType>()\", \"/*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.events\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\n/**\n * Exposes
the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n */\n\npublic external
open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n    open val view:
Window?\n    open val detail: Int\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n\npublic external interface
UIEventInit : EventInit {\n    var view: Window? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var detail: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
    \"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun UIEventInit(view: Window? = null,
    detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit
{\n    val o = js(\"({})\")\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n
    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n\n/**\n * Exposes the JavaScript
[FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n */\n\npublic external open class
FocusEvent(type: String, eventInitDict: FocusEventInit

```

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= definedExternally) : UIEvent {\n  open val relatedTarget: EventTarget?\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n\n\npublic external interface FocusEventInit : UIEventInit {\n  var
relatedTarget: EventTarget? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER"\)\n@kotlin.internal.InlineOnly\npublic inline fun FocusEventInit(relatedTarget:
EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): FocusEventInit {\n  val o = js(\\"({})"\)\n  o[\"relatedTarget\"] =
relatedTarget\n  o[\"view\"] = view\n  o[\"detail\"] = detail\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] =
cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n\n/**\n * Exposes the JavaScript
[MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n */\n\npublic external open
class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent,
UnionElementOrMouseEvent {\n  open val screenX: Int\n  open val screenY: Int\n  open val clientX: Int\n
open val clientY: Int\n  open val ctrlKey: Boolean\n  open val shiftKey: Boolean\n  open val altKey: Boolean\n
open val metaKey: Boolean\n  open val button: Short\n  open val buttons: Short\n  open val relatedTarget:
EventTarget?\n  open val region: String?\n  open val pageX: Double\n  open val pageY: Double\n  open val x:
Double\n  open val y: Double\n  open val offsetX: Double\n  open val offsetY: Double\n  fun
getModifierState(keyArg: String): Boolean\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
  }\n}\n\n\npublic external interface
MouseEventInit : EventModifierInit {\n  var screenX: Int? /* = 0 */\n    get() = definedExternally\n
set(value) = definedExternally\n  var screenY: Int? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var clientX: Int? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var clientY: Int? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var button: Short? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var buttons: Short? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var relatedTarget: EventTarget? /* = null */\n    get() = definedExternally\n    set(value)
= definedExternally\n  var region: String? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER"\)\n@kotlin.internal.InlineOnly\npublic
inline fun MouseEventInit(screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? =
0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false,
shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? =
false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): MouseEventInit {\n  val o = js(\\"({})"\)\n  o[\"screenX\"] = screenX\n  o[\"screenY\"] = screenY\n
o[\"clientX\"] = clientX\n  o[\"clientY\"] = clientY\n  o[\"button\"] = button\n
o[\"buttons\"] = buttons\n  o[\"relatedTarget\"] = relatedTarget\n  o[\"region\"] = region\n  o[\"ctrlKey\"] =
ctrlKey\n  o[\"shiftKey\"] = shiftKey\n  o[\"altKey\"] = altKey\n  o[\"metaKey\"] = metaKey\n
o[\"modifierAltGraph\"] = modifierAltGraph\n  o[\"modifierCapsLock\"] = modifierCapsLock\n
o[\"modifierFn\"] = modifierFn\n  o[\"modifierFnLock\"] = modifierFnLock\n  o[\"modifierHyper\"] =
modifierHyper\n  o[\"modifierNumLock\"] = modifierNumLock\n  o[\"modifierScrollLock\"] =
modifierScrollLock\n  o[\"modifierSuper\"] = modifierSuper\n  o[\"modifierSymbol\"] = modifierSymbol\n
o[\"modifierSymbolLock\"] = modifierSymbolLock\n  o[\"view\"] = view\n  o[\"detail\"] = detail\n
o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return
o\n}\n\n\npublic external interface EventModifierInit : UIEventInit {\n  var ctrlKey: Boolean? /* = false */\n

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get() = definedExternally\n    set(value)
= definedExternally\n    var shiftKey: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var altKey: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var metaKey: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var modifierAltGraph: Boolean? /* = false */\n    get() = definedExternally\n    set(value)
= definedExternally\n    var modifierCapsLock: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n    var modifierFn: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n    var modifierFnLock: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n    var modifierHyper: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n    var modifierNumLock:
Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var
modifierScrollLock: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
var modifierSuper: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
var modifierSymbol: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
var modifierSymbolLock: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean?
= false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? =
false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail:
Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventModifierInit
{\n    val o = js(\"({})\")\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"] = altKey\n
o[\"metaKey\"] = metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n    o[\"modifierCapsLock\"] =
modifierCapsLock\n    o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] = modifierFnLock\n
o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] =
view\n    o[\"detail\"] = detail\n    o[\"bubbles\"]
= bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/* Exposes
the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\n\npublic
external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n
    open val deltaX: Double\n    open val deltaY: Double\n    open val deltaZ: Double\n    open val deltaMode: Int\n\n
companion object {\n    val DOM_DELTA_PIXEL: Int\n    val DOM_DELTA_LINE: Int\n    val
DOM_DELTA_PAGE: Int\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val
AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface WheelEventInit :
MouseEventInit {\n    var deltaX: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var deltaY: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n
    var deltaZ: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var
deltaMode: Int? /* = 0 */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX:
Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region:
String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean?
= false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,

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modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n  val o =
js(\("{}")\n  o["deltaX"] = deltaX\n  o["deltaY"] = deltaY\n  o["deltaZ"] = deltaZ\n  o["deltaMode"] =
deltaMode\n  o["screenX"] = screenX\n  o["screenY"] = screenY\n  o["clientX"] = clientX\n  o["clientY"]
= clientY\n  o["button"] = button\n  o["buttons"] = buttons\n  o["relatedTarget"] = relatedTarget\n
o["region"] = region\n  o["ctrlKey"] = ctrlKey\n  o["shiftKey"] = shiftKey\n  o["altKey"] = altKey\n
o["metaKey"] = metaKey\n  o["modifierAltGraph"] = modifierAltGraph\n  o["modifierCapsLock"] =
modifierCapsLock\n  o["modifierFn"] = modifierFn\n  o["modifierFnLock"] = modifierFnLock\n
o["modifierHyper"] = modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n  o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] =
view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin\n *\npublic external open class
InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {\n  open val data: String\n
open val isComposing: Boolean\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface InputEventInit : UIEventInit {\n  var data: String? /* = \"\" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var isComposing:
Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\",
isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): InputEventInit {\n  val o = js(\("{}")\n  o["data"] = data\n
o["isComposing"] = isComposing\n  o["view"] = view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n *\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n
open val key: String\n  open val code: String\n  open val location:
Int\n  open val ctrlKey: Boolean\n  open val shiftKey: Boolean\n  open val altKey: Boolean\n  open val
metaKey: Boolean\n  open val repeat: Boolean\n  open val isComposing: Boolean\n  open val charCode: Int\n
open val keyCode: Int\n  open val which: Int\n  fun getModifierState(keyArg: String): Boolean\n\n  companion
object {\n    val DOM_KEY_LOCATION_STANDARD: Int\n    val DOM_KEY_LOCATION_LEFT: Int\n
val DOM_KEY_LOCATION_RIGHT: Int\n    val DOM_KEY_LOCATION_NUMPAD: Int\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface KeyboardEventInit : EventModifierInit {\n  var key: String? /* = \"\" */
*\n  get() = definedExternally\n  set(value) = definedExternally\n  var code: String? /* = \"\" */\n  get()
= definedExternally\n  set(value) = definedExternally\n  var location: Int? /* = 0 */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var repeat: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var isComposing: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun KeyboardEventInit(key: String? = \"\",
code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean?
= false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,

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modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): KeyEventInit {\n  val o = js(\{"\}\})\n  o["key"] = key\n  o["code"] = code\n  o["location"] =
location\n  o["repeat"] = repeat\n  o["isComposing"] = isComposing\n  o["ctrlKey"] = ctrlKey\n
o["shiftKey"] = shiftKey\n  o["altKey"] = altKey\n  o["metaKey"] = metaKey\n  o["modifierAltGraph"] =
modifierAltGraph\n  o["modifierCapsLock"] = modifierCapsLock\n  o["modifierFn"] = modifierFn\n
o["modifierFnLock"] = modifierFnLock\n  o["modifierHyper"] = modifierHyper\n  o["modifierNumLock"] =
modifierNumLock\n  o["modifierScrollLock"] = modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n  o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] =
view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n
o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n\n*\n\npublic
external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent {\n  open val data: String\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface CompositionEventInit : UIEventInit {\n  var data: String? /* = "" */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? =
"", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CompositionEventInit {\n  val o = js(\{"\}\})\n
o["data"] = data\n  o["view"] = view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n\n*\n\npublic external open class
Event(type: String, eventInitDict: EventInit = definedExternally) {\n  open val type: String\n  open val target:
EventTarget?\n  open val currentTarget: EventTarget?\n  open val eventPhase: Short\n  open val bubbles:
Boolean\n  open val cancelable: Boolean\n  open val defaultPrevented: Boolean\n  open val composed:
Boolean\n  open val isTrusted: Boolean\n  open val timeStamp: Number\n  fun composedPath():
Array<EventTarget>\n  fun stopPropagation()\n  fun stopImmediatePropagation()\n  fun preventDefault()\n
fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n  companion object {\n    val NONE:
Short\n
val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\n/**\n * Exposes the JavaScript [EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget)
to Kotlin\n\n*\n\npublic external abstract class EventTarget {\n  fun addEventListener(type: String, callback:
EventListener?, options: dynamic = definedExternally)\n  fun addEventListener(type: String, callback: ((Event) ->
Unit)?, options: dynamic = definedExternally)\n  fun removeEventListener(type: String, callback: EventListener?,
options: dynamic = definedExternally)\n  fun removeEventListener(type: String, callback: ((Event) -> Unit)?,
options: dynamic = definedExternally)\n  fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the
JavaScript [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n\n*\n\npublic
external interface EventListener {\n  fun handleEvent(event: Event)\n}", "/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED,
DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n  open val length: Int\n  fun
item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n  fun namedItem(name:

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String): UnionElementOrHTMLCollection?}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n *
Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n *
\n\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n
*\n\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n
open var value:
String\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n
*\n\npublic external abstract class HTMLOptionsCollection
: HTMLCollection {\n
override var length: Int\n
open var selectedIndex: Int\n
fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n
fun
remove(index: Int)\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n *
Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to
Kotlin\n *
\n\npublic external abstract class HTMLInputElement : Element, GlobalEventHandlers,
DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {\n
open var title:
String\n
open var lang: String\n
open var translate: Boolean\n
open var dir: String\n
open val dataset:
DOMStringMap\n
open var hidden: Boolean\n
open var tabIndex: Int\n
open var accessKey: String\n
open
val accessKeyLabel:
String\n
open var draggable: Boolean\n
open val dropzone: DOMTokenList\n
open var contextMenu:
HTMLMenuElement?\n
open var spellcheck: Boolean\n
open var innerText: String\n
open val offsetParent:
Element?\n
open val offsetTop: Int\n
open val offsetLeft: Int\n
open val offsetWidth: Int\n
open val
offsetHeight: Int\n
fun click()\n
fun focus()\n
fun blur()\n
fun forceSpellCheck()\n\n
companion object {\n
val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n
val
CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n
val ENTITY_NODE:
Short\n
val PROCESSING_INSTRUCTION_NODE: Short\n
val COMMENT_NODE: Short\n
val
DOCUMENT_NODE: Short\n
val DOCUMENT_TYPE_NODE: Short\n
val
DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n
val
DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n/**\n * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n
*\n\npublic external abstract class HTMLUnknownElement : HTMLInputElement {\n
companion object {\n
val
ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n
val
CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n
val ENTITY_NODE:
Short\n
val PROCESSING_INSTRUCTION_NODE: Short\n
val COMMENT_NODE: Short\n
val
DOCUMENT_NODE: Short\n
val DOCUMENT_TYPE_NODE: Short\n
val
DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n
val
DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING:

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Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n *\npublic external
abstract class DOMStringMap\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMStringMap.get(name:
String): String? = asDynamic()[name]\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMStringMap.set(name:
String, value: String) { asDynamic()[name] = value }\n\n\n/**\n * Exposes the JavaScript
[HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n *\npublic
external abstract class HTMLHtmlElement : HTMLElement {\n    open var version: String\n\n    companion object
{\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\n *\npublic
external abstract class HTMLHeadElement : HTMLElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n
        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n *\npublic
external abstract class HTMLTitleElement : HTMLElement {\n    open var text: String\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n *\npublic
external abstract class HTMLBaseElement : HTMLElement {\n    open var href: String\n    open var target:
String\n\n    companion object

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{\n    val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\n
*\npublic external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n    open var href: String\n
    open var crossOrigin: String?\n    open var rel: String\n    open var `as`: RequestDestination\n    open val relList:
DOMTokenList\n    open var media: String\n    open var nonce: String\n    open var hreflang: String\n    open var
type: String\n    open val sizes: DOMTokenList\n    open varreferrerPolicy: String\n    open var charset: String\n
    open var rev: String\n    open var target: String\n    open var scope: String\n    open var workerType:
WorkerType\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n
*\npublic external abstract class HTMLMetaElement : HTMLElement {\n    open var name: String\n    open var
httpEquiv: String\n    open var content: String\n    open var scheme: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n
        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to
Kotlin\n
*\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n    open var media:
String\n    open var nonce: String\n    open var type: String\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n
        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:

```

Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n\n\n\*\*\n \* Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n \*/\npublic external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\n open var text: String\n open var link: String\n open var vLink: String\n open var aLink: String\n open var bgColor: String\n open var background: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n\n\n\*\*\n \* Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n \*/\npublic external abstract class HTMLHeadingElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n\n\n\*\*\n \* Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\n \*/\npublic external abstract class HTMLParagraphElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n\n\n\*\*\n \* Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n \*/\npublic external abstract class HTMLHRElement : HTMLElement {\n open var align: String\n open var color: String\n open var noShade: Boolean\n open var size: String\n open var width: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n *\npublic
external abstract class HTMLPreElement : HTMLElement {\n    open var width: Int\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\n *\npublic
external abstract class HTMLQuoteElement : HTMLElement {\n    open var cite: String\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLOListElement) to Kotlin\n *\npublic
external abstract class HTMLLOListElement : HTMLElement {\n    open var reversed: Boolean\n    open
var start: Int\n    open var type: String\n    open var compact: Boolean\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLUListElement) to Kotlin\n *\npublic
external
abstract class HTMLLUListElement : HTMLElement {\n    open var compact: Boolean\n    open var type: String\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n}\n\n/**\n * Exposes the JavaScript

```

[HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement)

```
to Kotlin\n *\/npublic external abstract class HTMLLIElement : HTMLIElement {\n  open var value: Int\n  open var type: String\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
```

[HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement)

```
to Kotlin\n *\/npublic external abstract class HTMLDListElement : HTMLIElement {\n  open var compact: Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
```

[HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement)

```
to Kotlin\n *\/npublic external abstract class HTMLDivElement : HTMLIElement {\n  open var align: String\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
```

[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement)

```
to Kotlin\n *\/npublic external abstract class HTMLAnchorElement : HTMLIElement,\n HTMLHyperlinkElementUtils {\n  open var target: String\n  open var download: String\n  open var ping: String\n  open var rel: String\n  open val relList: DOMTokenList\n  open var hreflang: String\n  open var type: String\n  open var text: String\n  open varreferrerPolicy: String\n  open var coords: String\n  open var charset: String\n  open var name: String\n  open var rev: String\n  open var shape: String\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short
```

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Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to
Kotlin\n */\npublic external abstract class HTMLDataElement : HTMLElement {\n    open var value: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to
Kotlin\n */\npublic external abstract class HTMLTimeElement : HTMLElement {\n    open var dateTime: String\n\n
    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n       
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to
Kotlin\n */\npublic external abstract class HTMLSpanElement : HTMLElement {\n    companion object {\n       
val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n       
val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n
*/\npublic external abstract class HTMLBRElement : HTMLElement {\n    open var clear: String\n\n    companion
object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n       
val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to
Kotlin\n */\npublic external interface HTMLHyperlinkElementUtils {\n    var href: String\n    val origin: String\n

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var protocol: String\n var username: String\n var password: String\n var host: String\n var hostname:
String\n var port: String\n var pathname: String\n var search: String\n var hash: String\n}\n\n/**\n * Exposes
the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to
Kotlin\n\n *\n\npublic external abstract class HTMLModElement
: HTMLElement {\n open var cite: String\n open var dateTime: String\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n\n
*\n\npublic
external abstract class HTMLPictureElement : HTMLElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n/**\n * Exposes the JavaScript
[HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n\n
*\n\npublic external
abstract class HTMLSourceElement : HTMLElement {\n open var src: String\n open var type: String\n open
var srset: String\n open var sizes: String\n open var media: String\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\n\n/**\n * Exposes the JavaScript
[HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n\n
*\n\npublic external abstract class HTMLImageElement : HTMLElement, HTMLOrSVGImageElement,
TexImageSource {\n open var alt: String\n open var src: String\n open var srset: String\n open var sizes:
String\n open var crossOrigin: String?\n open var useMap: String\n open var isMap: Boolean\n open var
width: Int\n open var height: Int\n open val naturalWidth: Int\n open val naturalHeight: Int\n open val
complete: Boolean\n open val currentSrc: String\n open var referrerPolicy: String\n open var name: String\n
open var lowsrc: String\n open var align: String\n open var hspace: Int\n open var vspace: Int\n open var
longDesc: String\n open var border: String\n open val x: Int\n open val y: Int\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n

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    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin \n
*/ \n public external abstract class HTMLIFrameElement : HTMLElement { \n    open var src: String \n    open var
srcdoc: String \n    open var name: String \n    open val sandbox: DOMTokenList \n    open var allowFullscreen:
Boolean \n    open var allowUserMedia: Boolean \n    open var width: String \n    open var height: String \n    open var
referrerPolicy: String \n    open val contentDocument: Document? \n    open val contentWindow: Window? \n    open
var align: String \n    open var scrolling: String \n    open var frameborder: String \n    open var longDesc: String \n
    open var marginHeight: String \n    open var marginWidth: String \n    fun getSVGDocument(): Document? \n \n
companion object { \n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING:
Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val
DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the
JavaScript [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to
Kotlin \n */ \n public external abstract class HTMLEmbedElement : HTMLElement { \n    open var src: String \n
    open var type: String \n    open var width: String \n    open var height: String \n    open var align: String \n
    open var name: String \n    fun getSVGDocument(): Document? \n \n    companion object { \n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes
the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to
Kotlin \n */ \n public external abstract class HTMLObjectElement : HTMLElement { \n    open var data: String \n
    open var type: String \n    open var typeMustMatch: Boolean \n    open var name: String \n    open var useMap:
String \n    open val form: HTMLFormElement? \n    open var width: String \n    open var height: String \n    open val
contentDocument: Document? \n    open val contentWindow: Window? \n    open val willValidate: Boolean \n    open
val validity:
ValidityState \n    open val validationMessage: String \n    open var align: String \n    open var archive: String \n
    open var code: String \n    open var declare: Boolean \n    open var hspace: Int \n    open var standby: String \n
    open var vspace: Int \n    open var codeBase: String \n    open var codeType: String \n    open var border: String \n
    fun getSVGDocument(): Document? \n    fun checkValidity(): Boolean \n    fun reportValidity(): Boolean \n    fun
setCustomValidity(error: String) \n \n    companion object { \n    val ELEMENT_NODE: Short\n    val

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ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val  
 ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val  
 PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
 DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
 DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
 DOCUMENT\_POSITION\_DISCONNECTED:  
 Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val  
 DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
 val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
 DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n } \n \n /\*\* \n \* Exposes the JavaScript  
 [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin \n  
 \* \n public external abstract class HTMLParamElement : HTMLElement { \n open var name: String \n open var  
 value: String \n open var type: String \n open var valueType: String \n \n companion object { \n val  
 ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val  
 CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE:  
 Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
 DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
 DOCUMENT\_FRAGMENT\_NODE:  
 Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n  
 val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n  
 val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY:  
 Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n } \n \n /\*\* \n \* Exposes  
 the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to  
 Kotlin \n \* \n public external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource,  
 TexImageSource { \n open var width: Int \n open var height: Int \n open val videoWidth: Int \n open val  
 videoHeight: Int \n open var poster: String \n open var playsInline: Boolean \n \n companion object { \n val  
 NETWORK\_EMPTY: Short\n val NETWORK\_IDLE: Short\n val NETWORK\_LOADING: Short\n  
 val NETWORK\_NO\_SOURCE: Short\n val HAVE\_NOTHING: Short\n val HAVE\_METADATA:  
 Short\n val HAVE\_CURRENT\_DATA: Short\n val HAVE\_FUTURE\_DATA: Short\n val  
 HAVE\_ENOUGH\_DATA: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n  
 val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE:  
 Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val  
 COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n  
 val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
 DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
 val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
 val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
 DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n } \n \n /\*\* \n \* Exposes the JavaScript  
 [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement)  
 to Kotlin \n \* \n public external abstract class HTMLAudioElement : HTMLMediaElement { \n companion object  
 { \n val NETWORK\_EMPTY: Short\n val NETWORK\_IDLE: Short\n val NETWORK\_LOADING:  
 Short\n val NETWORK\_NO\_SOURCE: Short\n val HAVE\_NOTHING: Short\n val  
 HAVE\_METADATA: Short\n val HAVE\_CURRENT\_DATA: Short\n val HAVE\_FUTURE\_DATA:  
 Short\n val HAVE\_ENOUGH\_DATA: Short\n val ELEMENT\_NODE: Short\n val  
 ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val  
 ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val  
 PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
 DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val

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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n */\npublic
external abstract class HTMLTrackElement : HTMLMElement {\n    open var kind: String\n    open var src: String\n
open var srclang: String\n    open var label: String\n    open var default: Boolean\n    open val readyState: Short\n
open val track: TextTrack\n\n    companion object {\n        val NONE: Short\n        val LOADING: Short\n        val
LOADED: Short\n        val ERROR: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE:
Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\n
*/\npublic external abstract class HTMLMediaElement : HTMLMElement {\n    open val error: MediaError?\n    open
var src: String\n    open var srcObject: MediaProvider?\n    open val currentSrc: String\n    open var crossOrigin:
String?\n    open val networkState: Short\n    open var preload: String\n    open val buffered: TimeRanges\n    open
val readyState: Short\n    open val seeking:
Boolean\n    open var currentTime: Double\n    open val duration: Double\n    open val paused: Boolean\n    open
var defaultPlaybackRate: Double\n    open var playbackRate: Double\n    open val played: TimeRanges\n    open val
seekable: TimeRanges\n    open val ended: Boolean\n    open var autoplay: Boolean\n    open var loop: Boolean\n
open var controls: Boolean\n    open var volume: Double\n    open var muted: Boolean\n    open var defaultMuted:
Boolean\n    open val audioTracks: AudioTrackList\n    open val videoTracks: VideoTrackList\n    open val
textTracks: TextTrackList\n    open val mediaKeys: MediaKeys?\n    open var onencrypted: ((Event) -> dynamic)?\n
open var onwaitingforkey: ((Event) -> dynamic)?\n    fun load()\n    fun canPlayType(type: String):
CanPlayTypeResult\n    fun fastSeek(time: Double)\n    fun getStartDate(): dynamic\n    fun play():
Promise<Unit>\n    fun pause()\n    fun addTextTrack(kind: TextTrackKind, label: String = definedExternally,
language:
String = definedExternally): TextTrack\n    fun setMediaKeys(mediaKeys: MediaKeys?): Promise<Unit>\n\n
companion object {\n        val NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val
NETWORK_LOADING: Short\n        val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n
        val HAVE_METADATA: Short\n        val HAVE_CURRENT_DATA: Short\n        val
HAVE_FUTURE_DATA: Short\n        val HAVE_ENOUGH_DATA: Short\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val

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DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n/\*\* \n \* Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin \n \* \n \n public external abstract class MediaError { \n open val code: Short \n \n companion object { \n val MEDIA\_ERR\_ABORTED: Short \n val MEDIA\_ERR\_NETWORK: Short \n val MEDIA\_ERR\_DECODE: Short \n val MEDIA\_ERR\_SRC\_NOT\_SUPPORTED: Short \n } \n} \n \n /\*\* \n \* Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin \n \* \n \n public external abstract class AudioTrackList : EventTarget { \n open val length: Int \n open var onchange: ((Event) -> dynamic)? \n open var onaddtrack: ((TrackEvent) -> dynamic)? \n open var onremovetrack: ((TrackEvent) -> dynamic)? \n fun getTrackById(id: String): AudioTrack? \n} \n \n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index] \n \n /\*\* \n \* Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin \n \* \n \n public external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack { \n open val id: String \n open val kind: String \n open val label: String \n open val language: String \n open var enabled: Boolean \n open val sourceBuffer: SourceBuffer? \n} \n \n /\*\* \n \* Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin \n \* \n \n public external abstract class VideoTrackList : EventTarget { \n open val length: Int \n open val selectedIndex: Int \n open var onchange: ((Event) -> dynamic)? \n open var onaddtrack: ((TrackEvent) -> dynamic)? \n open var onremovetrack: ((TrackEvent) -> dynamic)? \n fun getTrackById(id: String): VideoTrack? \n} \n \n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index] \n \n /\*\* \n \* Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin \n \* \n \n public external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack { \n open val id: String \n open val kind: String \n open val label: String \n open val language: String \n open var selected: Boolean \n open val sourceBuffer: SourceBuffer? \n} \n \n public external abstract class TextTrackList : EventTarget { \n open val length: Int \n open var onchange: ((Event) -> dynamic)? \n open var onaddtrack: ((TrackEvent) -> dynamic)? \n open var onremovetrack: ((TrackEvent) -> dynamic)? \n fun getTrackById(id: String): TextTrack? \n} \n \n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index] \n \n /\*\* \n \* Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin \n \* \n \n public external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack { \n open val kind: TextTrackKind \n open val label: String \n open val language: String \n open val id: String \n open val inBandMetadataTrackDispatchType: String \n open var mode: TextTrackMode \n open val cues: TextTrackCueList? \n open val activeCues: TextTrackCueList? \n open var oncuechange: ((Event) -> dynamic)? \n open val sourceBuffer: SourceBuffer? \n fun addCue(cue: TextTrackCue) \n fun removeCue(cue: TextTrackCue) \n} \n \n public external abstract class TextTrackCueList { \n open val length: Int \n fun getCueById(id: String): TextTrackCue? \n} \n \n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index] \n \n /\*\* \n \* Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin \n \* \n \n public external abstract class TextTrackCue : EventTarget { \n open val track: TextTrack? \n open var id: String \n open var startTime: Double \n open var endTime: Double \n open var pauseOnExit: Boolean \n open var onenter: ((Event) -> dynamic)? \n open var onexit: ((Event) -> dynamic)? \n} \n \n /\*\* \n \* Exposes the JavaScript

[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n \*^/npublic external abstract class TimeRanges {\n open val length: Int\n fun start(index: Int): Double\n fun end(index: Int): Double\n}\n\n\*\*\n \* Exposes the JavaScript

[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n \*^/npublic external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) :

Event {\n open val track: UnionAudioTrackOrTextTrackOrVideoTrack?\n companion object {\n val NONE: Short\n val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n }\n}\n\npublic external interface TrackEventInit : EventInit {\n var track: UnionAudioTrackOrTextTrackOrVideoTrack? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track: UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): TrackEventInit {\n val o = js(\"({})\")\n o[\"track\"] = track\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n\*\*\n \* Exposes the JavaScript

[HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin\n \*^/npublic external abstract class HTMLMapElement : HTMLElement {\n open var name: String\n open val areas: HTMLCollection\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n\*\*\n \* Exposes the JavaScript

[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin\n \*^/npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\n open var alt: String\n open var coords: String\n open var shape: String\n open var target: String\n open var download: String\n open var ping: String\n open var rel: String\n open val relList: DOMTokenList\n open var referrerPolicy: String\n open var noHref: Boolean\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n\*\*\n \* Exposes the JavaScript

[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n \*^/npublic external abstract class HTMLTableElement : HTMLElement {\n open var caption: HTMLTableCaptionElement?\n open var tHead: HTMLTableSectionElement?\n open var tFoot: HTMLTableSectionElement?\n open val tBodies: HTMLCollection\n open val rows: HTMLCollection\n open var align: String\n open var border: String\n open var frame: String\n open var rules: String\n open var summary: String\n open var width: String\n open var bgColor: String\n open var cellPadding: String\n open var cellSpacing: String\n fun createCaption(): HTMLTableCaptionElement\n fun deleteCaption()\n fun createTHead():

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HTMLTableSectionElement fun deleteTHead() fun createTFoot(): HTMLTableSectionElement fun
deleteTFoot() fun createTBody(): HTMLTableSectionElement fun insertRow(index: Int =
definedExternally): HTMLTableRowElement fun deleteRow(index: Int)\n\n companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n/**\n * Exposes the JavaScript
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to
Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\n    open var align:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n\n}\n\n/**\n * Exposes
the JavaScript [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement)
to Kotlin\n */\npublic external abstract class HTMLTableColElement : HTMLElement {\n    open var span: Int\n
open var align: String\n    open var ch: String\n    open var chOff: String\n    open var vAlign: String\n
open var width: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n\n}\n\n/**\n * Exposes the
JavaScript
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to
Kotlin\n */\npublic external abstract class HTMLTableSectionElement : HTMLElement {\n    open val rows:
HTMLCollection\n    open var align: String\n    open var ch: String\n    open var chOff: String\n    open var vAlign:
String\n    fun insertRow(index: Int = definedExternally): HTMLTableSectionElement\n    fun deleteRow(index: Int)\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE:
Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    } \n\n}

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    val DOCUMENT_POSITION_CONTAINED_BY: Short
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short } } \n \n /** \n * Exposes the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin
*\npublic external abstract class HTMLTableRowElement : HTMLElement { \n    open val rowIndex: Int \n    open
val sectionRowIndex: Int \n    open val cells: HTMLCollection \n    open var align: String \n    open var ch: String \n
open var chOff: String \n    open var vAlign: String \n    open var bgColor: String \n    fun insertCell(index: Int =
definedExternally): HTMLElement \n
    fun deleteCell(index: Int) \n \n    companion object { \n        val ELEMENT_NODE: Short \n        val
ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val CDATA_SECTION_NODE: Short \n        val
ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE: Short \n        val
PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short } } \n \n /** \n * Exposes the JavaScript
[HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin
*\npublic external abstract class HTMLTableCellElement
: HTMLElement { \n    open var colSpan: Int \n    open var rowSpan: Int \n    open var headers: String \n    open val
cellIndex: Int \n    open var scope: String \n    open var abbr: String \n    open var align: String \n    open var axis:
String \n    open var height: String \n    open var width: String \n    open var ch: String \n    open var chOff: String \n
open var noWrap: Boolean \n    open var vAlign: String \n    open var bgColor: String \n \n    companion object { \n
        val ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val
CDATA_SECTION_NODE: Short \n        val ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE:
Short \n        val PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING:
Short \n        val DOCUMENT_POSITION_FOLLOWING: Short \n        val
DOCUMENT_POSITION_CONTAINS: Short \n        val DOCUMENT_POSITION_CONTAINED_BY: Short \n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short } } \n \n /** \n * Exposes the
JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin
*\npublic external abstract class HTMLFormElement : HTMLElement { \n    open var acceptCharset: String \n
open var action: String \n    open var autocomplete: String \n    open var enctype: String \n    open var encoding:
String \n    open var method: String \n    open var name: String \n    open var noValidate: Boolean \n    open var target:
String \n    open val elements: HTMLFormControlsCollection \n    open val length: Int \n    fun submit() \n    fun
reset() \n    fun checkValidity(): Boolean \n    fun reportValidity(): Boolean \n \n    companion object { \n        val
ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE: Short \n        val TEXT_NODE:
Short \n        val CDATA_SECTION_NODE: Short \n        val ENTITY_REFERENCE_NODE: Short \n        val
ENTITY_NODE: Short \n        val PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE:
Short \n        val DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short } } \n \n @Suppress("INVISIBLE_REFERENCE"),

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\ "INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public inline operator fun
HTMLFormElement.get(index: Int): Element? =
asDynamic()[index] \n \n @Suppress( "INVISIBLE_REFERENCE" ,
\ "INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n public inline operator fun
HTMLFormElement.get(name: String):
UnionElementOrRadioNodeList? = asDynamic()[name] \n \n /** \n * Exposes the JavaScript
[HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin \n */ \n public
external abstract class HTMLLabelElement : HTMLInputElement { \n open val form: HTMLFormElement? \n open
var htmlFor: String \n open val control: HTMLFormElement? \n \n companion object { \n val ELEMENT_NODE:
Short \n val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE:
Short \n val ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS:
Short \n val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n } \n \n /** \n * Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin \n */ \n public
external abstract class HTMLInputElement : HTMLFormElement { \n open var accept: String \n open var alt: String \n
open var autocomplete: String \n open var autofocus: Boolean \n open var defaultChecked: Boolean \n open var
checked: Boolean \n open var dirName: String \n open var disabled: Boolean \n open val form:
HTMLFormElement? \n open val files: FileList? \n open var formAction: String \n open var formEnctype:
String \n open var formMethod: String \n open var formNoValidate: Boolean \n open var formTarget: String \n
open var height: Int \n open var indeterminate: Boolean \n open var inputMode: String \n open val list:
HTMLFormElement? \n open var max: String \n open var maxLength:
Int \n open var min: String \n open var minLength: Int \n open var multiple: Boolean \n open var name:
String \n open var pattern: String \n open var placeholder: String \n open var readOnly: Boolean \n open var
required: Boolean \n open var size: Int \n open var src: String \n open var step: String \n open var type: String \n
open var defaultValue: String \n open var value: String \n open var valueAsDate: dynamic \n open var
valueAsNumber: Double \n open var width: Int \n open val willValidate: Boolean \n open val validity:
ValidityState \n open val validationMessage: String \n open val labels: NodeList \n open var selectionStart:
Int? \n open var selectionEnd: Int? \n open var selectionDirection: String? \n open var align: String \n open var
useMap: String \n fun stepUp(n: Int = definedExternally) \n fun stepDown(n: Int = definedExternally) \n fun
checkValidity(): Boolean \n fun reportValidity(): Boolean \n fun setCustomValidity(error:
String) \n fun select() \n fun setRangeText(replacement: String) \n fun setRangeText(replacement: String, start:
Int, end: Int, selectionMode: SelectionMode = definedExternally) \n fun setSelectionRange(start: Int, end: Int,
direction: String = definedExternally) \n \n companion object { \n val ELEMENT_NODE: Short \n val
ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n val
ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
val DOCUMENT_POSITION_CONTAINED_BY: Short \n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n } \n \n /** \n * Exposes the
JavaScript [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to

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Kotlin\n */\npublic external abstract class HTMLButtonElement : HTMLInputElement {\n    open var autofocus:
Boolean\n    open var disabled: Boolean\n    open val form: HTMLFormElement?\n    open var formAction: String\n
    open var formEnctype: String\n    open var formMethod: String\n    open var formNoValidate: Boolean\n    open
var formTarget: String\n    open var name: String\n    open var type: String\n    open var value: String\n    open var
menu: HTMLMenuElement?\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val
validationMessage: String\n    open val labels: NodeList\n    fun checkValidity(): Boolean\n    fun reportValidity():
Boolean\n    fun setCustomValidity(error: String)\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n\n    /**\n     * Exposes the JavaScript
[HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\n */\n\npublic
external abstract class HTMLSelectElement : HTMLInputElement, ItemArrayLike<Element> {\n    open var
autocomplete: String\n    open var autofocus: Boolean\n
    open var disabled: Boolean\n    open val form: HTMLFormElement?\n    open var multiple: Boolean\n    open var
name: String\n    open var required: Boolean\n    open var size: Int\n    open val type: String\n    open val options:
HTMLOptionsCollection\n    override var length: Int\n    open val selectedOptions: HTMLCollection\n    open var
selectedIndex: Int\n    open var value: String\n    open val willValidate: Boolean\n    open val validity:
ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n    fun namedItem(name:
String): HTMLOptionElement?\n    fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement,
before: dynamic = definedExternally)\n    fun remove(index: Int)\n    fun checkValidity(): Boolean\n    fun
reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n    override fun item(index: Int): Element?\n\n
    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline operator fun
HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline operator fun
HTMLSelectElement.set(index: Int, option:
HTMLOptionElement?) { asDynamic()[index] = option }\n\n    /**\n     * Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n */\n\npublic
external abstract class HTMLDataListElement : HTMLInputElement {\n    open val options:
HTMLCollection\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:

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Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
*\npublic external abstract class HTMLOptGroupElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n    open var label:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n
*\npublic external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n    open var form:
HTMLFormElement?\n    open var label: String\n    open var defaultSelected: Boolean\n    open var selected:
Boolean\n    open var value: String\n    open var text: String\n    open val index: Int\n\n    companion object {\n
val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n
val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n
*\npublic external abstract class HTMLTextAreaElement : HTMLInputElement {\n    open var autocomplete: String\n
open var autofocus: Boolean\n    open var cols: Int\n    open var dirName: String\n    open var disabled: Boolean\n
open val form: HTMLFormElement?\n    open var inputMode: String\n    open var maxLength: Int\n    open var
minLength: Int\n    open var name: String\n    open var placeholder:
String\n    open var readOnly: Boolean\n    open var required: Boolean\n    open var rows: Int\n    open var wrap:
String\n    open val type: String\n    open var defaultValue: String\n    open var value: String\n    open val
textLength: Int\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val
validationMessage: String\n    open val labels: NodeList\n    open var selectionStart: Int?\n    open var selectionEnd:
Int?\n    open var selectionDirection: String?\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n
fun setCustomValidity(error: String)\n    fun select()\n    fun setRangeText(replacement: String)\n    fun

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setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)\n fun
setSelectionRange(start: Int, end: Int, direction: String = definedExternally)\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\n
*\npublic external abstract class HTMLKeygenElement : HTMLInputElement {\n open var autofocus: Boolean\n
open var challenge: String\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open
var keytype: String\n open var name: String\n open val type: String\n open val willValidate: Boolean\n open
val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun
checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin\n
*\npublic external abstract class HTMLOutputElement : HTMLInputElement {\n open val htmlFor: DOMTokenList\n
open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open var
defaultValue: String\n open var value: String\n open val willValidate: Boolean\n open val validity:
ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity():
Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n
val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n
*\npublic external abstract class HTMLProgressElement : HTMLInputElement {\n open var value: Double\n open
var max: Double\n open val position: Double\n open val labels: NodeList\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:

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Short\n    val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n**\n * Exposes the JavaScript
[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n
*\npublic external abstract class HTMLMeterElement : HTMLElement {\n    open var value: Double\n
    open var min: Double\n    open var max: Double\n    open var low: Double\n    open var high: Double\n
    open var optimum: Double\n    open val labels: NodeList\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n**\n * Exposes the JavaScript
[HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n
*\npublic external abstract class
HTMLFieldSetElement : HTMLElement {\n    open var disabled: Boolean\n    open val form:
HTMLFormElement?\n    open var name: String\n    open val type: String\n    open val elements:
HTMLCollection\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val
validationMessage: String\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun
setCustomValidity(error: String)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n

        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n**\n * Exposes the JavaScript
[HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n
*\npublic external abstract class HTMLLegendElement : HTMLElement {\n    open val form:
HTMLFormElement?\n    open var align: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n
        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n */\npublic external
abstract class ValidityState {\n    open val valueMissing: Boolean\n    open val typeMismatch: Boolean\n    open val
patternMismatch: Boolean\n    open val tooLong: Boolean\n    open val tooShort: Boolean\n    open val
rangeUnderflow: Boolean\n    open val rangeOverflow: Boolean\n    open val stepMismatch: Boolean\n    open val
badInput: Boolean\n    open val customError: Boolean\n    open val valid: Boolean\n}\n\n/**\n * Exposes the
JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to
Kotlin\n */\npublic external abstract class HTMLDetailsElement
: HTMLElement {\n    open var open: Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLMenuElement : HTMLElement {\n    open var type: String\n    open var label: String\n    open var compact:
Boolean\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLMenuItemElement : HTMLElement {\n    open var type: String\n    open var label: String\n    open var icon:
String\n    open var disabled: Boolean\n    open var checked: Boolean\n    open var
radiogroup: String\n    open var default: Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external open class
RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n    open val
relatedTarget: EventTarget?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET:
Short\n        val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface RelatedEventInit : EventInit {\n
var relatedTarget: EventTarget? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RelatedEventInit(relatedTarget:

```

```

EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
RelatedEventInit {
    val o = js("{}")
    o["relatedTarget"] = relatedTarget
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/** Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin */
public external abstract class HTMLDialogElement : HTMLElement {
    open var open: Boolean
    open var returnValue: String
    fun show(anchor: UnionElementOrMouseEvent = definedExternally)
    fun showModal(anchor: UnionElementOrMouseEvent = definedExternally)
    fun close(returnValue: String = definedExternally)

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin */
public external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {
    open var src: String
    open var type: String
    open var charset: String
    open var async: Boolean
    open var defer: Boolean
    open var crossOrigin: String?
    open var text: String
    open var nonce: String
    open var event: String
    open var htmlFor: String

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin */
public external abstract class HTMLTemplateElement : HTMLElement {
    open val content: DocumentFragment

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin */
public external abstract class HTMLSlotElement : HTMLElement {
    open var name: String
    fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>

    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val
    }
}

```

```

CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n
    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\npublic external interface
AssignedNodesOptions { \n    var flatten: Boolean? /* = false */ \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline fun AssignedNodesOptions(flatten:
Boolean? = false): AssignedNodesOptions { \n    val o = js("({})") \n    o["flatten"] = flatten \n    return
o \n} \n\n/** \n * Exposes the JavaScript
[HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement)
to Kotlin \n * \n\npublic external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource,
TexImageSource { \n    open var width: Int \n    open var height: Int \n    fun getContext(contextId: String, vararg
arguments: Any?): RenderingContext? \n    fun toDataURL(type: String = definedExternally, quality: Any? =
definedExternally): String \n    fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality:
Any? = definedExternally) \n\n    companion object { \n        val ELEMENT_NODE: Short \n        val
ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val CDATA_SECTION_NODE: Short \n        val
ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE: Short \n        val
PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING:
Short \n        val DOCUMENT_POSITION_FOLLOWING: Short \n        val
DOCUMENT_POSITION_CONTAINS: Short \n        val DOCUMENT_POSITION_CONTAINED_BY: Short \n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n    } \n} \n\npublic external interface
CanvasRenderingContext2DSettings { \n    var alpha: Boolean? /* = true */ \n    get() = definedExternally \n
set(value) = definedExternally \n} \n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n@kotlin.internal.InlineOnly \npublic inline fun
CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings { \n    val o =
js("({})") \n    o["alpha"] = alpha \n    return o \n} \n\n/** \n * Exposes the JavaScript
[CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to
Kotlin \n * \n\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles,
CanvasShadowStyles, CanvasFilters, CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText,
CanvasDrawImage, CanvasHitRegion, CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles,
CanvasPath, RenderingContext { \n    open val canvas: HTMLCanvasElement \n} \n\npublic external interface
CanvasState { \n    fun save() \n    fun restore() \n} \n\npublic external interface CanvasTransform { \n    fun scale(x:
Double, y: Double) \n    fun rotate(angle: Double) \n    fun translate(x: Double, y: Double) \n    fun transform(a:
Double, b: Double, c: Double, d: Double, e: Double, f: Double) \n    fun getTransform(): DOMMatrix \n    fun
setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double) \n    fun setTransform(transform:
dynamic = definedExternally) \n    fun resetTransform() \n} \n\npublic external interface CanvasCompositing { \n
    var globalAlpha: Double \n    var globalCompositeOperation: String \n} \n\npublic external interface
CanvasImageSmoothing { \n    var imageSmoothingEnabled:
Boolean \n    var imageSmoothingQuality: ImageSmoothingQuality \n} \n\npublic external interface
CanvasFillStrokeStyles { \n    var strokeStyle: dynamic \n    get() = definedExternally \n    set(value) =

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definedExternally\n  var fillStyle: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\n fun
createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\n
fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?\n}\n\npublic external interface
CanvasShadowStyles {\n  var shadowOffsetX: Double\n  var shadowOffsetY: Double\n  var shadowBlur:
Double\n  var shadowColor: String\n}\n\npublic external interface CanvasFilters {\n  var filter:
String\n}\n\npublic external interface CanvasRect {\n  fun clearRect(x: Double, y: Double, w: Double, h:
Double)\n  fun
fillRect(x: Double, y: Double, w: Double, h: Double)\n  fun strokeRect(x: Double, y: Double, w: Double, h:
Double)\n}\n\npublic external interface CanvasDrawPath {\n  fun beginPath()\n  fun fill(fillRule: CanvasFillRule
= definedExternally)\n  fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n  fun stroke()\n
fun stroke(path: Path2D)\n  fun clip(fillRule: CanvasFillRule = definedExternally)\n  fun clip(path: Path2D,
fillRule: CanvasFillRule = definedExternally)\n  fun resetClip()\n  fun isPointInPath(x: Double, y: Double,
fillRule: CanvasFillRule = definedExternally): Boolean\n  fun isPointInPath(path: Path2D, x: Double, y: Double,
fillRule: CanvasFillRule = definedExternally): Boolean\n  fun isPointInStroke(x: Double, y: Double): Boolean\n
fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external interface
CanvasUserInterface {\n  fun drawFocusIfNeeded(element: Element)\n  fun drawFocusIfNeeded(path: Path2D,
element: Element)\n  fun scrollPathIntoView()\n  fun scrollPathIntoView(path: Path2D)\n}\n\npublic external
interface CanvasText {\n  fun fillText(text: String, x: Double, y: Double, maxWidth: Double =
definedExternally)\n  fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n
fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n  fun
drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n  fun drawImage(image: CanvasImageSource,
dx: Double, dy: Double, dw: Double, dh: Double)\n  fun drawImage(image: CanvasImageSource, sx: Double, sy:
Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface
CanvasHitRegion {\n  fun addHitRegion(options: HitRegionOptions = definedExternally)\n  fun
removeHitRegion(id: String)\n  fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n  fun
createImageData(sw: Double, sh:
Double): ImageData\n  fun createImageData(imagedata: ImageData): ImageData\n  fun getImageData(sx:
Double, sy: Double, sw: Double, sh: Double): ImageData\n  fun putImageData(imagedata: ImageData, dx: Double,
dy: Double)\n  fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX: Double, dirtyY: Double,
dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic external interface CanvasPathDrawingStyles {\n  var
lineWidth: Double\n  var lineCap: CanvasLineCap\n  var lineJoin: CanvasLineJoin\n  var miterLimit: Double\n
var lineDashOffset: Double\n  fun setLineDash(segments: Array<Double>)\n  fun getLineDash():
Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles {\n  var font: String\n  var textAlign:
CanvasTextAlign\n  var textBaseline: CanvasTextBaseline\n  var direction: CanvasDirection\n}\n\npublic
external interface CanvasPath {\n  fun closePath()\n  fun moveTo(x: Double, y: Double)\n  fun lineTo(x:
Double, y: Double)\n
fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n  fun bezierCurveTo(cp1x: Double,
cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n  fun arcTo(x1: Double, y1: Double, x2:
Double, y2: Double, radius: Double)\n  fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX:
Double, radiusY: Double, rotation: Double)\n  fun rect(x: Double, y: Double, w: Double, h: Double)\n  fun arc(x:
Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean =
definedExternally)\n  fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double,
startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n}\n\n/**\n * Exposes the
JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n *\n\npublic
external abstract class CanvasGradient {\n  fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes
the JavaScript

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[CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n \*/\npublic external abstract class CanvasPattern {\n fun setTransform(transform: dynamic = definedExternally)\n}\n\n/\*\*\n \* Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n \*/\npublic external abstract class TextMetrics {\n open val width: Double\n open val actualBoundingBoxLeft: Double\n open val actualBoundingBoxRight: Double\n open val fontBoundingBoxAscent: Double\n open val fontBoundingBoxDescent: Double\n open val actualBoundingBoxAscent: Double\n open val actualBoundingBoxDescent: Double\n open val emHeightAscent: Double\n open val emHeightDescent: Double\n open val hangingBaseline: Double\n open val alphabeticBaseline: Double\n open val ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n var path: Path2D? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n var fillRule: CanvasFillRule? /\* = CanvasFillRule.NONZERO \*/\n get() = definedExternally\n set(value) = definedExternally\n var id: String? /\* = \"\" \*/\n get() = definedExternally\n set(value) = definedExternally\n var parentID: String? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n var cursor: String? /\* = \"inherit\" \*/\n get() = definedExternally\n set(value) = definedExternally\n var control: Element? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n var label: String? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n var role: String? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HitRegionOptions(path: Path2D? = null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor: String? = \"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\n val o = js(\"({})\")\n o[\"path\"] = path\n o[\"fillRule\"] = fillRule\n o[\"id\"] = id\n o[\"parentID\"] = parentID\n o[\"cursor\"] = cursor\n o[\"control\"] = control\n o[\"label\"] = label\n o[\"role\"] = role\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\n \*/\npublic external open class ImageData : ImageBitmapSource, TexImageSource {\n constructor(sw: Int, sh: Int)\n constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n open val width: Int\n open val height: Int\n open val data: Uint8ClampedArray\n}\n\n/\*\*\n \* Exposes the JavaScript [Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n \*/\npublic external open class Path2D() : CanvasPath {\n constructor(path: Path2D)\n constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)\n constructor(d: String)\n fun addPath(path: Path2D, transform: dynamic = definedExternally)\n override fun closePath()\n override fun moveTo(x: Double, y: Double)\n override fun lineTo(x: Double, y: Double)\n override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n override fun rect(x: Double, y: Double, w: Double, h: Double)\n override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /\* = definedExternally \*/)\n override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /\* = definedExternally \*/)\n}\n\n/\*\*\n \* Exposes the JavaScript [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext) to Kotlin\n \*/\npublic external abstract class ImageBitmapRenderingContext {\n open val canvas: HTMLCanvasElement\n fun transferFromImageBitmap(bitmap: ImageBitmap?)\n}\n\npublic external interface ImageBitmapRenderingContextSettings {\n var alpha: Boolean? /\* = true \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n val o = js(\"({})\")\n o[\"alpha\"] = alpha\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

```

[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin
*/\npublic external abstract class CustomElementRegistry {\n    fun define(name: String, constructor: () -> dynamic,
options: ElementDefinitionOptions = definedExternally)\n    fun get(name: String): Any?\n    fun
whenDefined(name: String): Promise<Unit>\n}\n\npublic external interface ElementDefinitionOptions {\n    var
extends: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends:
String? = undefined): ElementDefinitionOptions {\n    val o = js("{}")\n    o["extends"] = extends\n    return
o\n}\n\npublic external interface ElementContentEditable {\n    var contentEditable: String\n    val
isContentEditable: Boolean\n}\n\n/**\n * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer)
to Kotlin
*/\npublic external abstract class DataTransfer {\n    open var dropEffect: String\n    open var
effectAllowed: String\n    open val items: DataTransferItemList\n    open val types: Array<out String>\n    open val
files: FileList\n    fun setDragImage(image: Element, x: Int, y: Int)\n    fun getData(format: String): String\n    fun
setData(format: String, data: String)\n    fun clearData(format: String = definedExternally)\n}\n\n/**\n * Exposes
the JavaScript [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to
Kotlin
*/\npublic external abstract class DataTransferItemList {\n    open val length: Int\n    fun add(data: String,
type: String): DataTransferItem?\n    fun add(data: File): DataTransferItem?\n    fun remove(index: Int)\n    fun
clear()\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
DataTransferItemList.get(index: Int): DataTransferItem?
= asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin
*/\npublic
external abstract class DataTransferItem {\n    open val kind: String\n    open val type: String\n    fun
getAsString(_callback: ((String) -> Unit)?)\n    fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/TouchEvent) to Kotlin
*/\npublic external open class
DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n    open val
dataTransfer: DataTransfer?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE:
Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface
DragEventInit : MouseEventInit {\n        var dataTransfer: DataTransfer? /* = null */\n        get() = definedExternally\n
        set(value) = definedExternally\n    }\n\n    @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n    @kotlin.internal.InlineOnly\n    public inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): DragEventInit {\n        val o = js("{}")\n        o["dataTransfer"] = dataTransfer\n        o["screenX"]
= screenX\n        o["screenY"] = screenY\n        o["clientX"] = clientX\n        o["clientY"] = clientY\n        o["button"] =
button\n        o["buttons"] = buttons\n        o["relatedTarget"] = relatedTarget\n        o["region"] = region\n
        o["ctrlKey"] = ctrlKey\n        o["shiftKey"] = shiftKey\n        o["altKey"] = altKey\n        o["metaKey"] = metaKey\n
        o["modifierAltGraph"] = modifierAltGraph\n        o["modifierCapsLock"] = modifierCapsLock\n
        o["modifierFn"] = modifierFn\n        o["modifierFnLock"] = modifierFnLock\n        o["modifierHyper"] =
modifierHyper\n        o["modifierNumLock"] = modifierNumLock\n        o["modifierScrollLock"] =
modifierScrollLock\n        o["modifierSuper"] = modifierSuper\n        o["modifierSymbol"] = modifierSymbol\n
        o["modifierSymbolLock"] = modifierSymbolLock\n        o["view"] = view\n        o["detail"] = detail\n
    }

```

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of["bubbles"] = bubbles\n of["cancelable"] = cancelable\n of["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript
[Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin\n *\npublic external abstract class
Window : EventTarget, GlobalEventHandlers, WindowEventHandlers, WindowOrWorkerGlobalScope,
WindowSessionStorage, WindowLocalStorage, GlobalPerformance, UnionMessagePortOrWindowProxy {\n open
val window: Window\n open val self: Window\n open val document: Document\n open var name: String\n
open val location: Location\n open val history: History\n open val customElements: CustomElementRegistry\n
open val locationbar: BarProp\n open val menubar: BarProp\n open val personalbar: BarProp\n open val
scrollbars: BarProp\n open val statusbar: BarProp\n open val toolbar: BarProp\n open var status: String\n
open val closed: Boolean\n open val frames: Window\n open val length: Int\n open val top: Window\n open
var opener: Any?\n open val parent: Window\n open val frameElement: Element?\n open val navigator:
Navigator\n
open val applicationCache: ApplicationCache\n open val external: External\n open val screen: Screen\n
open val innerWidth: Int\n open val innerHeight: Int\n open val scrollX: Double\n open val pageXOffset:
Double\n open val scrollY: Double\n open val pageYOffset: Double\n open val screenX: Int\n open val
screenY: Int\n open val outerWidth: Int\n open val outerHeight: Int\n open val devicePixelRatio: Double\n
fun close()\n fun stop()\n fun focus()\n fun blur()\n fun open(url: String = definedExternally, target: String =
definedExternally, features: String = definedExternally): Window?\n fun alert()\n fun alert(message: String)\n
fun confirm(message: String = definedExternally): Boolean\n fun prompt(message: String = definedExternally,
default: String = definedExternally): String?\n fun print()\n fun requestAnimationFrame(callback: (Double) ->
Unit): Int\n fun cancelAnimationFrame(handle: Int)\n fun postMessage(message:
Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n fun captureEvents()\n fun
releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x: Int, y: Int)\n fun
moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun scroll(options:
ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options:
ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options:
ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun getComputedStyle(elt:
Element, pseudoElt: String? = definedExternally):
CSSStyleDeclaration\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Window.get(name: String):
dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n open val visible: Boolean\n}\n\n/**\n
* Exposes
the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n *\npublic external
abstract class History {\n open val length: Int\n open var scrollRestoration: ScrollRestoration\n open val state:
Any?\n fun go(delta: Int = definedExternally)\n fun back()\n fun forward()\n fun pushState(data: Any?, title:
String, url: String? = definedExternally)\n fun replaceState(data: Any?, title: String, url: String? =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n *\npublic external abstract class
Location {\n open var href: String\n open val origin: String\n open var protocol: String\n open var host:
String\n open var hostname: String\n open var port: String\n open var pathname: String\n open var search:
String\n open var hash: String\n open val ancestorOrigins: Array<out String>\n fun assign(url: String)\n fun
replace(url:
String)\n fun reload()\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n *\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n open val
state: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface PopStateEventInit
: EventInit {\n var state: Any? /* = null */\n get() = definedExternally\n set(value) =

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definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n  val o
= js(\"({})\")\n  o[\"state\"] = state\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] =
cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n *\npublic
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event {\n  open val oldURL: String\n  open val newURL: String\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface HashChangeEventInit : EventInit {\n  var oldURL: String? /* = \"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var newURL: String? /* = \"\" */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HashChangeEventInit(oldURL:
String? = \"\", newURL: String? = \"\",
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): HashChangeEventInit {\n
val o = js(\"({})\")\n  o[\"oldURL\"] = oldURL\n  o[\"newURL\"] = newURL\n  o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n *\npublic
external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) :
Event {\n  open val persisted: Boolean\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
  }\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n  var persisted: Boolean? /* = false */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline fun PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): PageTransitionEventInit {\n  val o = js(\"({})\")\n  o[\"persisted\"] =
persisted\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return
o\n}\n\n/**\n * Exposes the JavaScript
[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n *\npublic
external open class BeforeUnloadEvent : Event {\n  var returnValue: String\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external abstract class ApplicationCache : EventTarget {\n  open
val status: Short\n  open var onchecking: ((Event) -> dynamic)?\n  open var onerror: ((Event) -> dynamic)?\n
open var onupdate:
((Event) -> dynamic)?\n  open var ondownloading: ((Event) -> dynamic)?\n  open var onprogress:
((ProgressEvent) -> dynamic)?\n  open var onupdateready: ((Event) -> dynamic)?\n  open var oncached: ((Event)
-> dynamic)?\n  open var onobsolete: ((Event) -> dynamic)?\n  fun update()\n  fun abort()\n  fun
swapCache()\n\n  companion object {\n    val UNCACHED: Short\n    val IDLE: Short\n    val
CHECKING: Short\n    val DOWNLOADING: Short\n    val UPDATEREADY: Short\n    val OBSOLETE:
Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n *\npublic
external interface NavigatorOnLine {\n  val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript
[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n *\npublic external open class
ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n  open val message:
String\n  open val filename: String\n  open val lineno: Int\n  open val colno: Int\n  open val error: Any?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET:
Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface ErrorEventInit : EventInit {\n
var message: String? /* = \"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var

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filename: String? /* = "" */\n    get() = definedExternally\n    set(value) = definedExternally\n    var lineno:
Int? /* = 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var colno: Int? /* = 0 */\n
get() = definedExternally\n    set(value) = definedExternally\n    var error: Any? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
    ErrorEventInit(message: String? = "", filename: String? = "", lineno: Int? = 0, colno: Int? = 0, error: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n    val o =
js("{}")\n    o["message"] = message\n    o["filename"] = filename\n    o["lineno"] = lineno\n    o["colno"] =
colno\n    o["error"] = error\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n
*/\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) :
Event {\n    open val promise: Promise<Any?>\n    open val reason: Any?\n\n    companion object {\n        val
NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n\npublic
    external interface PromiseRejectionEventInit : EventInit {\n        var promise: Promise<Any?>?\n        var reason:
Any??\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise:
Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): PromiseRejectionEventInit {\n    val o = js("{}")\n    o["promise"] = promise\n
o["reason"] = reason\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n
*/\npublic external interface GlobalEventHandlers {\n    var onabort: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n
    var onblur: ((FocusEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
    var oncancel: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
    var oncanplay: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
    var oncanplaythrough: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
    var onchange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
    var onclick: ((MouseEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
    var onclose: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
    var oncontextmenu: ((MouseEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var oncuechange: ((Event) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n
    var ondblclick: ((MouseEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n
    var ondrag: ((DragEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n
    var ondragend: ((DragEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n
    var ondragenter: ((DragEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n
    var ondragexit: ((DragEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n
    var ondragleave: ((DragEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n
    var ondragover: ((DragEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n
    var ondragstart: ((DragEvent) -> dynamic)?\n
    get() = definedExternally\n
    set(value) = definedExternally\n
    var ondrop: ((DragEvent) -> dynamic)?\n
    get() = definedExternally\n
    set(value) = definedExternally\n
    var ondurationchange: ((Event) -> dynamic)?\n
    get() = definedExternally\n
    set(value) = definedExternally\n
    var onemptied: ((Event) -> dynamic)?\n
    get() = definedExternally\n
    set(value) = definedExternally\n
    var onended: ((Event) -> dynamic)?\n
    get() = definedExternally\n

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set(value) = definedExternally\n  var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var onfocus: ((FocusEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var oninput: ((InputEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var oninvalid: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n
  var onkeydown: ((KeyboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var onkeypress: ((KeyboardEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onkeyup: ((KeyboardEvent) -> dynamic)?\n    get() = definedExternally\n
  set(value) = definedExternally\n  var onload: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onloadeddata: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onloadedmetadata: ((Event) -> dynamic)?\n    get() = definedExternally\n
  set(value) = definedExternally\n  var onloadend: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onloadstart: ((ProgressEvent) -> dynamic)?\n    get() = definedExternally\n
  set(value) = definedExternally\n  var onmousedown:
((MouseEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
onmouseenter: ((MouseEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
  var onmouseleave: ((MouseEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var onmousemove: ((MouseEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onmouseout: ((MouseEvent) -> dynamic)?\n    get() = definedExternally\n
  set(value) = definedExternally\n  var onmouseover: ((MouseEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var onmouseup: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n  var onwheel: ((WheelEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n  var onpause: ((Event)
-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var onplay: ((Event) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var onplaying: ((Event) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var onprogress:
((ProgressEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
onratechange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
onreset: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
onresize: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
onscroll: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
onseeked: ((Event) -> dynamic)?\n    get() = definedExternally\n
  set(value) = definedExternally\n  var onseeking: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onselect: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onshow: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onstalled: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onsubmit: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onsuspend: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var ontimeupdate: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var ontoggle: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onvolumechange: ((Event) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var onwaiting: ((Event) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var ongotpointercapture:
((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n  var
onlostpointercapture: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var onpointerdown: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n  var onpointermove: ((PointerEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var onpointerup: ((PointerEvent) -> dynamic)?\n

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get() = definedExternally\n    set(value) = definedExternally\n    var onpointercancel: ((PointerEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpointerover:
((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpointerout: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onpointerenter: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpointerleave: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n
*\npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) ->
String)?\n    get()
= definedExternally\n    set(value) = definedExternally\n    var onhashchange: ((HashChangeEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onlanguagechange: ((Event)
-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onmessage:
((MessageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onoffline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
ononline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpagehide: ((PageTransitionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) -> dynamic)?\n    get()
= definedExternally\n    set(value) = definedExternally\n    var onrejectionhandled: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onstorage: ((StorageEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onunload: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n    var oncopy:
((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var oncut:
((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpaste: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n/**\n * Exposes the JavaScript
[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)
to Kotlin\n
*\npublic external interface WindowOrWorkerGlobalScope {\n    val origin: String\n    val caches:
CacheStorage\n    fun btoa(data: String): String\n    fun atob(data: String): String\n    fun setTimeout(handler:
dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun clearTimeout(handle: Int =
definedExternally)\n    fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?):
Int\n    fun clearInterval(handle: Int = definedExternally)\n    fun createImageBitmap(image: ImageBitmapSource,
options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n    fun createImageBitmap(image:
ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally):
Promise<ImageBitmap>\n    fun fetch(input: dynamic, init: RequestInit = definedExternally):
Promise<Response>\n}\n\n/**\n * Exposes the JavaScript
[Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n
*\npublic external abstract class
Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies,
NavigatorPlugins, NavigatorConcurrentHardware {\n    open val clipboard: Clipboard\n    open val mediaDevices:
MediaDevices\n    open val maxTouchPoints: Int\n    open val serviceWorker: ServiceWorkerContainer\n    fun
requestMediaKeySystemAccess(keySystem: String, supportedConfigurations:
Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n    fun getUserMedia(constraints:

```



```

MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n fun
vibrate(pattern: dynamic): Boolean\n}\n\n**\n * Exposes the JavaScript
[NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n *\npublic external interface
NavigatorID {\n val appCodeName:
String\n val appName: String\n val appVersion: String\n val platform: String\n val product: String\n val
productSub: String\n val userAgent: String\n val vendor: String\n val vendorSub: String\n val oscpu:
String\n fun taintEnabled(): Boolean\n}\n\n**\n * Exposes the JavaScript
[NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n *\npublic
external interface NavigatorLanguage {\n val language: String\n val languages: Array<out String>\n}\n\npublic
external interface NavigatorContentUtils {\n fun registerProtocolHandler(scheme: String, url: String, title:
String)\n fun registerContentHandler(mimeType: String, url: String, title: String)\n fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n fun isContentHandlerRegistered(mimeType:
String, url: String): String\n fun unregisterProtocolHandler(scheme: String, url: String)\n fun
unregisterContentHandler(mimeType: String,
url: String)\n}\n\npublic external interface NavigatorCookies {\n val cookieEnabled: Boolean\n}\n\n**\n *
Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to
Kotlin\n *\npublic external interface NavigatorPlugins {\n val plugins: PluginArray\n val mimeTypes:
MimeTypeArray\n fun javaEnabled(): Boolean\n}\n\n**\n * Exposes the JavaScript
[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n *\npublic external abstract
class PluginArray : ItemArrayLike<Plugin> {\n fun refresh(reload: Boolean = definedExternally)\n override fun
item(index: Int): Plugin?\n fun namedItem(name: String):
Plugin?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int):
Plugin? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator
fun PluginArray.get(name: String): Plugin? = asDynamic()[name]\n\n**\n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n *\npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n override fun item(index: Int): MimeType?\n
fun namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index:
Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name:
String): MimeType? = asDynamic()[name]\n\n**\n * Exposes the JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n *\npublic external abstract class Plugin
: ItemArrayLike<MimeType> {\n open val name: String\n open val description: String\n open val filename:
String\n override
fun item(index: Int): MimeType?\n fun namedItem(name: String):
MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int):
MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String):
MimeType? = asDynamic()[name]\n\n**\n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n *\npublic external abstract
class MimeType {\n open val type: String\n open val description: String\n open val suffixes: String\n open
val enabledPlugin: Plugin\n}\n\n**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n *\npublic external
abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n open val width: Int\n open val height:
Int\n fun close()\n}\n\npublic

```

```

external interface ImageBitmapOptions {
    var imageOrientation: ImageOrientation? /* =
ImageOrientation.NONE */
    get() = definedExternally
    set(value) = definedExternally
    var
premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */
    get() = definedExternally
    set(value) = definedExternally
    var colorSpaceConversion: ColorSpaceConversion? /* =
ColorSpaceConversion.DEFAULT */
    get() = definedExternally
    set(value) = definedExternally
    var
resizeWidth: Int?
    get() = definedExternally
    set(value) = definedExternally
    var resizeHeight: Int?
    get() = definedExternally
    set(value) = definedExternally
    var resizeQuality: ResizeQuality? /* =
ResizeQuality.LOW */
    get() = definedExternally
    set(value) =
definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun
ImageBitmapOptions(imageOrientation:
ImageOrientation? = ImageOrientation.NONE,
premultiplyAlpha: PremultiplyAlpha? =
PremultiplyAlpha.DEFAULT,
colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT,
resizeWidth: Int? = undefined,
resizeHeight: Int? = undefined,
resizeQuality:
ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {
    val o = js("{}")
    o["imageOrientation"] =
imageOrientation
    o["premultiplyAlpha"] =
premultiplyAlpha
    o["colorSpaceConversion"] =
colorSpaceConversion
    o["resizeWidth"] =
resizeWidth
    o["resizeHeight"] =
resizeHeight
    o["resizeQuality"] =
resizeQuality
    return o
}
/**
 * Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin
 */
public external open
class MessageEvent(type: String,
eventInitDict: MessageEventInit = definedExternally) : Event {
    open val data:
Any?
    open val origin: String
    open val lastEventId: String
    open val source:
UnionMessagePortOrWindowProxy?
    open val ports: Array<out MessagePort>
    fun initMessageEvent(type: String,
bubbles: Boolean,
cancelable: Boolean,
data: Any?,
origin: String,
lastEventId: String,
source: UnionMessagePortOrWindowProxy?,
ports: Array<MessagePort>):
companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
public external interface
MessageEventInit : EventInit {
    var data: Any? /* = null */
    get() = definedExternally
    set(value) =
definedExternally
    var origin: String? /* = "" */
    get() = definedExternally
    set(value) =
definedExternally
    var lastEventId: String? /* = "" */
    get() = definedExternally
    set(value) =
definedExternally
    var source: UnionMessagePortOrWindowProxy? /* = null */
    get() =
definedExternally
    set(value) = definedExternally
    var ports: Array<MessagePort>? /* = arrayOf()
*/
    get() = definedExternally
    set(value) =
definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MessageEventInit(data: Any? = null,
origin: String? = "",
lastEventId: String? = "",
source: UnionMessagePortOrWindowProxy? = null,
ports: Array<MessagePort>? = arrayOf(),
bubbles: Boolean? = false,
cancelable: Boolean? = false,
composed: Boolean? =
false): MessageEventInit {
    val o = js("{}")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] =
lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] =
bubbles
    o["cancelable"] =
cancelable
    o["composed"] =
composed
    return o
}
/**
 * Exposes the JavaScript
[EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin
 */
public external open
class EventSource(url: String,
eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {
    open val url: String
    open val withCredentials: Boolean
    open val readyState: Short
    var onopen:
((Event) -> dynamic)?
    var onmessage: ((MessageEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    fun close()
    companion object {
        val CONNECTING: Short
        val OPEN: Short
        val CLOSED:
Short
    }
}
public external interface EventSourceInit {
    var withCredentials: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun EventSourceInit(withCredentials:
Boolean? = false): EventSourceInit {
    val o = js("{}")
    o["withCredentials"] =
withCredentials
    return
}

```

```

o\n}\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to
Kotlin\n * \npublic external open class WebSocket(url: String, protocols: dynamic
= definedExternally) : EventTarget {\n  open val url: String\n  open val readyState: Short\n  open val
bufferedAmount: Number\n  var onopen: ((Event) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n  var
onclose: ((Event) -> dynamic)?\n  open val extensions: String\n  open val protocol: String\n  var onmessage:
((MessageEvent) -> dynamic)?\n  var binaryType: BinaryType\n  fun close(code: Short = definedExternally,
reason: String = definedExternally)\n  fun send(data: String)\n  fun send(data: Blob)\n  fun send(data:
ArrayBuffer)\n  fun send(data: ArrayBufferView)\n\n  companion object {\n    val CONNECTING: Short\n
val OPEN: Short\n    val CLOSING: Short\n    val CLOSED: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n * \npublic external open class
CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n  open val
wasClean: Boolean\n  open val code: Short\n  open val reason: String\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface CloseEventInit : EventInit {\n  var wasClean: Boolean? /* = false */\n
get() = definedExternally\n  set(value) = definedExternally\n  var code: Short? /* = 0 */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var reason: String? /* = \"\" */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? =
false, code: Short? = 0, reason: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CloseEventInit {\n  val o = js(\"({})\")\n  o[\"wasClean\"] = wasClean\n  o[\"code\"]
= code\n  o[\"reason\"] = reason\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n * \npublic external
open class MessageChannel {\n  open val port1: MessagePort\n  open val port2: MessagePort\n}\n\n/**\n *
Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n
* \npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy,
UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n  open var onmessage:
((MessageEvent) -> dynamic)?\n  fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n  fun start()\n  fun close()\n}\n\n/**\n * Exposes the JavaScript
[BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n * \npublic
external
open class BroadcastChannel(name: String) : EventTarget {\n  open val name: String\n  var onmessage:
((MessageEvent) -> dynamic)?\n  fun postMessage(message: Any?)\n  fun close()\n}\n\n/**\n * Exposes the
JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n
* \npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope,
GlobalPerformance {\n  open val self: WorkerGlobalScope\n  open val location: WorkerLocation\n  open val
navigator: WorkerNavigator\n  open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n  open var
onlanguagechange: ((Event) -> dynamic)?\n  open var onoffline: ((Event) -> dynamic)?\n  open var ononline:
((Event) -> dynamic)?\n  open var onrejectionhandled: ((Event) -> dynamic)?\n  open var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n  fun importScripts(vararg urls: String)\n}\n\n/**\n * Exposes the
JavaScript
[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope)
to Kotlin\n * \npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n  open var
onmessage: ((MessageEvent) -> dynamic)?\n  fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n  fun close()\n}\n\n/**\n * Exposes the JavaScript
[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to
Kotlin\n * \npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n  open val name:
String\n  open val applicationCache: ApplicationCache\n  open var onconnect: ((Event) -> dynamic)?\n  fun

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close()\n}\n\n/**\n * Exposes the JavaScript
[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n *\npublic external
interface AbstractWorker {\n    var onerror: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value)
= definedExternally\n}\n\n/**\n
* Exposes the JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n *\npublic
external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget,
AbstractWorker {\n    var onmessage: ((MessageEvent) -> dynamic)?\n    override var onerror: ((Event) ->
dynamic)?\n    fun terminate()\n    fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n}\n\npublic external interface WorkerOptions {\n    var type: WorkerType? /* =
WorkerType.CLASSIC */\n    get() = definedExternally\n    set(value) = definedExternally\n    var credentials:
RequestCredentials? /* = RequestCredentials.OMIT */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? =
WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions
{\n    val o = js(\"({})\")\n    o[\"type\"] = type\n    o[\"credentials\"] = credentials\n    return o\n}\n\n/**\n *
Exposes the JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n
*\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally, options:
WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n    open val port: MessagePort\n    override
var onerror: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to
Kotlin\n *\npublic external interface NavigatorConcurrentHardware {\n    val hardwareConcurrency:
Number\n}\n\n/**\n * Exposes the JavaScript
[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n *\npublic
external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine,
NavigatorConcurrentHardware
{\n    open val serviceWorker: ServiceWorkerContainer\n}\n\n/**\n * Exposes the JavaScript
[WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n *\npublic external
abstract class WorkerLocation {\n    open val href: String\n    open val origin: String\n    open val protocol: String\n
open val host: String\n    open val hostname: String\n    open val port: String\n    open val pathname: String\n
open val search: String\n    open val hash: String\n}\n\n/**\n * Exposes the JavaScript
[Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n *\npublic external abstract class
Storage {\n    open val length: Int\n    fun key(index: Int): String?\n    fun removeItem(key: String)\n    fun
clear()\n    fun getItem(key: String): String?\n    fun setItem(key: String, value:
String)\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String):
String?
= asDynamic()[key]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value:
String) { asDynamic()[key] = value }\n\n/**\n * Exposes the JavaScript
[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n
*\npublic external interface WindowSessionStorage {\n    val sessionStorage: Storage\n}\n\n/**\n * Exposes the
JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to
Kotlin\n *\npublic external interface WindowLocalStorage {\n    val localStorage: Storage\n}\n\n/**\n * Exposes
the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n *\npublic
external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n
    open val key: String?\n    open val oldValue: String?\n    open val newValue: String?\n    open val url:
String\n    open val storageArea: Storage?\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n

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}\n}\n\npublic external interface StorageEventInit : EventInit {\n    var key: String? /* = null */\n        get() =
definedExternally\n    set(value) = definedExternally\n    var oldValue: String? /* = null */\n        get() =
definedExternally\n    set(value) = definedExternally\n    var newValue: String? /* = null */\n        get() =
definedExternally\n    set(value) = definedExternally\n    var url: String? /* = \"\" */\n        get() =
definedExternally\n    set(value) = definedExternally\n    var storageArea: Storage? /* = null */\n        get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun StorageEventInit(key: String? = null,
oldValue: String?
= null, newValue: String? = null, url: String? = \"\", storageArea: Storage? = null, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n    val o = js(\"({})\")\n    o[\"key\"]
= key\n    o[\"oldValue\"] = oldValue\n    o[\"newValue\"] = newValue\n    o[\"url\"] = url\n    o[\"storageArea\"] =
storageArea\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n
return o\n}\n\npublic external abstract class HTMLAppletElement : HTMLElement {\n    open var align: String\n
open var alt: String\n    open var archive: String\n    open var code: String\n    open var codeBase: String\n
open var height: String\n    open var hspace: Int\n    open var name: String\n    open var _object: String\n
open var vspace: Int\n    open var width: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\n
*\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n    open var behavior: String\n
open var bgColor: String\n    open var direction: String\n    open var height: String\n    open var hspace: Int\n
open var loop: Int\n    open var scrollAmount: Int\n    open var scrollDelay: Int\n    open var trueSpeed: Boolean\n
open var vspace: Int\n    open var width: String\n    open var onbounce: ((Event) -> dynamic)?\n
open var onfinish: ((Event) -> dynamic)?\n    open var onstart: ((Event) -> dynamic)?\n    fun start()\n
fun stop()\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n
        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n
*\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\n    open var
cols: String\n    open var rows: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

```

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
HTMLFrameElement : HTMLElement {\n    open var name: String\n    open var scrolling: String\n    open var src:
String\n    open var frameBorder: String\n    open var longDesc: String\n    open var noResize: Boolean\n    open val
contentDocument: Document?\n    open val contentWindow: Window?\n    open var marginHeight: String\n    open
var marginWidth: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
abstract class HTMLDirectoryElement : HTMLElement {\n    open var compact: Boolean\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to
Kotlin\n */\n\npublic external abstract class HTMLFontElement : HTMLElement {\n    open var color: String\n
open var face: String\n    open var size: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n
        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
External {\n    fun AddSearchProvider()\n    fun IsSearchProviderInstalled()\n}\n\npublic external interface
EventInit {\n    var bubbles: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var cancelable: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var composed: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed:

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Boolean? = false): EventInit {\n  val o = js("{}")\n  o["bubbles"] = bubbles\n  o["cancelable"] =
cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n *\npublic external open
class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n  open val detail:
Any?\n  fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?)\n\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface CustomEventInit : EventInit {\n  var detail: Any?
/* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun CustomEventInit(detail:
Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
CustomEventInit {\n  val o = js("{}")\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"]
= cancelable\n  o["composed"] = composed\n  return o\n}\n\npublic external interface EventListenerOptions {\n
var capture: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture:
Boolean? = false): EventListenerOptions {\n  val o = js("{}")\n  o["capture"] = capture\n  return
o\n}\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n  var passive: Boolean? /* =
false */\n  get() = definedExternally\n  set(value) = definedExternally\n  var once: Boolean? /* = false */\n
get() = definedExternally\n  set(value)
= definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive:
Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n  val o =
js("{}")\n  o["passive"] = passive\n  o["once"] = once\n  o["capture"] = capture\n  return o\n}\n\npublic
external interface NonElementParentNode {\n  fun getElementById(elementId: String): Element?\n}\n\n/**\n *
Exposes the JavaScript
[DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n *\npublic external interface DocumentOrShadowRoot {\n  val fullscreenElement: Element?\n  get() =
definedExternally\n}\n\n/**\n * Exposes the JavaScript
[ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n *\npublic external interface
ParentNode {\n  val children: HTMLCollection\n  val firstElementChild: Element?\n
get() = definedExternally\n  val lastElementChild: Element?\n  get() = definedExternally\n  val
childElementCount: Int\n  fun prepend(vararg nodes: dynamic)\n  fun append(vararg nodes: dynamic)\n  fun
querySelector(selectors: String): Element?\n  fun querySelectorAll(selectors: String): NodeList\n}\n\n/**\n *
Exposes the JavaScript
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to
Kotlin\n *\npublic external interface NonDocumentTypeChildNode {\n  val previousElementSibling: Element?\n
get() = definedExternally\n  val nextElementSibling: Element?\n  get() = definedExternally\n}\n\n/**\n *
Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n *\npublic external interface ChildNode {\n  fun before(vararg nodes: dynamic)\n  fun after(vararg nodes:
dynamic)\n  fun replaceWith(vararg nodes: dynamic)\n  fun remove()\n}\n\n/**\n * Exposes the JavaScript
[Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n *\npublic external interface
Slotable {\n  val assignedSlot: HTMLSlotElement?\n  get() = definedExternally\n}\n\n/**\n * Exposes the
JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n *\npublic external
abstract class NodeList : ItemArrayLike<Node> {\n  override fun item(index: Int):
Node?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun NodeList.get(index: Int):
Node? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript

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[HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n */\npublic
external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n
override fun item(index: Int): Element?\n fun namedItem(name: String):
Element?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline operator fun HTMLCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\n */\npublic
external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\n fun
observe(target: Node, options: MutationObserverInit = definedExternally)\n fun disconnect()\n fun
takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript
[MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n
*/\npublic external interface MutationObserverInit {\n var childList: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var attributes:
Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var characterData: Boolean?\n
get() = definedExternally\n set(value) = definedExternally\n var subtree: Boolean? /* = false */\n get()
= definedExternally\n set(value) = definedExternally\n var attributeOldValue: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var characterDataOldValue: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var attributeFilter: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MutationObserverInit(childList:
Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false,
attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined,
attributeFilter: Array<String>? = undefined): MutationObserverInit {\n val o = js(\"({})\")\n o[\"childList\"] =
childList\n o[\"attributes\"] = attributes\n o[\"characterData\"] = characterData\n o[\"subtree\"] = subtree\n
o[\"attributeOldValue\"] = attributeOldValue\n o[\"characterDataOldValue\"] = characterDataOldValue\n
o[\"attributeFilter\"] = attributeFilter\n return o\n}\n\n/**\n * Exposes the JavaScript
[MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\n */\npublic external
abstract class MutationRecord {\n open val type: String\n open val target: Node\n open val addedNodes:
NodeList\n open val removedNodes: NodeList\n open val previousSibling: Node?\n open val nextSibling:
Node?\n open val attributeName: String?\n open val attributeNamespace: String?\n open val oldValue:
String?\n}\n\n/**\n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to
Kotlin\n
*/\npublic external abstract class Node : EventTarget {\n open val nodeType: Short\n open val nodeName:
String\n open val baseURI: String\n open val isConnected: Boolean\n open val ownerDocument: Document?\n
open val parentNode: Node?\n open val parentElement: Element?\n open val childNodes: NodeList\n open
val firstChild: Node?\n open val lastChild: Node?\n open val previousSibling: Node?\n open val nextSibling:
Node?\n open var nodeValue: String?\n open var textContent: String?\n fun getRootNode(options:
GetRootNodeOptions = definedExternally): Node\n fun hasChildNodes(): Boolean\n fun normalize()\n fun
cloneNode(deep: Boolean = definedExternally): Node\n fun isEqualNode(otherNode: Node?): Boolean\n fun
isSameNode(otherNode: Node?): Boolean\n fun compareDocumentPosition(other: Node): Short\n fun
contains(other: Node?): Boolean\n fun lookupPrefix(namespace: String?): String?\n fun
lookupNamespaceURI(prefix: String?):
String?\n fun isDefaultNamespace(namespace: String?): Boolean\n fun insertBefore(node: Node, child: Node?):
Node\n fun appendChild(node: Node): Node\n fun replaceChild(node: Node, child: Node): Node\n fun
removeChild(child: Node): Node\n\n companion object {\n val ELEMENT_NODE: Short\n val

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ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n } \n} \n\npublic external interface GetRootNodeOptions { \n    var composed: Boolean? /* = false */ \n
get() = definedExternally \n    set(value) = definedExternally \n} \n\n@Suppress({"INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER"}) \n@kotlin.internal.InlineOnly \npublic inline fun GetRootNodeOptions(composed:
Boolean? = false): GetRootNodeOptions { \n    val o = js("{}") \n    o["composed"] = composed \n    return
o \n} \n\n/** \n * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to
Kotlin \n */ \npublic external open class Document : Node, GlobalEventHandlers,
DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode,
GeometryUtils { \n    open val implementation: DOMImplementation \n    open val URL: String \n    open val
documentURI: String \n    open val origin: String \n    open val compatMode: String \n    open val characterSet:
String \n    open val charset: String \n    open val inputEncoding:
String \n    open val contentType: String \n    open val doctype: DocumentType? \n    open val documentElement:
Element? \n    open val location: Location? \n    var domain: String \n    open val referrer: String \n    var cookie:
String \n    open val lastModified: String \n    open val readyState: DocumentReadyState \n    var title: String \n    var
dir: String \n    var body: HTMLElement? \n    open val head: HTMLHeadElement? \n    open val images:
HTMLCollection \n    open val embeds: HTMLCollection \n    open val plugins: HTMLCollection \n    open val links:
HTMLCollection \n    open val forms: HTMLCollection \n    open val scripts: HTMLCollection \n    open val
currentScript: HTMLScriptElement? \n    open val defaultView: Window? \n    open val activeElement:
Element? \n    var designMode: String \n    var onreadystatechange: ((Event) -> dynamic)? \n    var fgColor: String \n
var linkColor: String \n    var vlinkColor: String \n    var alinkColor: String \n    var bgColor: String \n    open
val anchors: HTMLCollection \n    open val applets: HTMLCollection \n    open val all: HTMLAllCollection \n
open val scrollingElement: Element? \n    open val styleSheets: StyleSheetList \n    open val rootElement:
SVGElement? \n    open val fullscreenEnabled: Boolean \n    open val fullscreen: Boolean \n    var
onfullscreenchange: ((Event) -> dynamic)? \n    var onfullscreenerror: ((Event) -> dynamic)? \n    override var
onabort: ((Event) -> dynamic)? \n    override var onblur: ((FocusEvent) -> dynamic)? \n    override var oncancel:
((Event) -> dynamic)? \n    override var oncanplay: ((Event) -> dynamic)? \n    override var oncanplaythrough:
((Event) -> dynamic)? \n    override var onchange: ((Event) -> dynamic)? \n    override var onclick: ((MouseEvent) ->
dynamic)? \n    override var onclose: ((Event) -> dynamic)? \n    override var oncontextmenu: ((MouseEvent) ->
dynamic)? \n    override var oncuechange: ((Event) -> dynamic)? \n    override var ondblclick: ((MouseEvent) ->
dynamic)? \n    override
var ondrag: ((DragEvent) -> dynamic)? \n    override var ondragend: ((DragEvent) -> dynamic)? \n    override var
ondragenter: ((DragEvent) -> dynamic)? \n    override var ondragexit: ((DragEvent) -> dynamic)? \n    override var
ondragleave: ((DragEvent) -> dynamic)? \n    override var ondragover: ((DragEvent) -> dynamic)? \n    override var
ondragstart: ((DragEvent) -> dynamic)? \n    override var ondrop: ((DragEvent) -> dynamic)? \n    override var
ondurationchange: ((Event) -> dynamic)? \n    override var onemptied: ((Event) -> dynamic)? \n    override var
onended: ((Event) -> dynamic)? \n    override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)? \n
override var onfocus: ((FocusEvent) -> dynamic)? \n    override var oninput: ((InputEvent) -> dynamic)? \n    override
var oninvalid: ((Event) -> dynamic)? \n    override var onkeydown: ((KeyboardEvent) -> dynamic)? \n    override var
onkeypress: ((KeyboardEvent) -> dynamic)? \n    override var onkeyup: ((KeyboardEvent) -> dynamic)? \n

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    override var onload: ((Event) -> dynamic)?\n    override var onloadeddata: ((Event) -> dynamic)?\n    override var
onloadedmetadata: ((Event) -> dynamic)?\n    override var onloadend: ((Event) -> dynamic)?\n    override var
onloadstart: ((ProgressEvent) -> dynamic)?\n    override var onmousedown: ((MouseEvent) -> dynamic)?\n
    override var onmouseenter: ((MouseEvent) -> dynamic)?\n    override var onmouseleave: ((MouseEvent) ->
dynamic)?\n    override var onmousemove: ((MouseEvent) -> dynamic)?\n    override var onmouseout:
((MouseEvent) -> dynamic)?\n    override var onmouseover: ((MouseEvent) -> dynamic)?\n    override var
onmouseup: ((MouseEvent) -> dynamic)?\n    override var onwheel: ((WheelEvent) -> dynamic)?\n    override var
onpause: ((Event) -> dynamic)?\n    override var onplay: ((Event) -> dynamic)?\n    override var onplaying: ((Event)
-> dynamic)?\n    override var onprogress: ((ProgressEvent) -> dynamic)?\n    override var onratechange: ((Event) ->
dynamic)?\n
    override var onreset: ((Event) -> dynamic)?\n    override var onresize: ((Event) -> dynamic)?\n    override var
onscroll: ((Event) -> dynamic)?\n    override var onseeked: ((Event) -> dynamic)?\n    override var onseeking:
((Event) -> dynamic)?\n    override var onselect: ((Event) -> dynamic)?\n    override var onshow: ((Event) ->
dynamic)?\n    override var onstalled: ((Event) -> dynamic)?\n    override var onsubmit: ((Event) -> dynamic)?\n
    override var onsuspend: ((Event) -> dynamic)?\n    override var ontimeupdate: ((Event) -> dynamic)?\n    override
var ontoggle: ((Event) -> dynamic)?\n    override var onvolumechange: ((Event) -> dynamic)?\n    override var
onwaiting: ((Event) -> dynamic)?\n    override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n    override
var onlostpointercapture: ((PointerEvent) -> dynamic)?\n    override var onpointerdown: ((PointerEvent) ->
dynamic)?\n    override var onpointermove: ((PointerEvent) -> dynamic)?\n    override var onpointerup:
((PointerEvent)
-> dynamic)?\n    override var onpointercancel: ((PointerEvent) -> dynamic)?\n    override var onpointerover:
((PointerEvent) -> dynamic)?\n    override var onpointerout: ((PointerEvent) -> dynamic)?\n    override var
onpointerenter: ((PointerEvent) -> dynamic)?\n    override var onpointerleave: ((PointerEvent) -> dynamic)?\n
    override var oncopy: ((ClipboardEvent) -> dynamic)?\n    override var oncut: ((ClipboardEvent) -> dynamic)?\n
    override var onpaste: ((ClipboardEvent) -> dynamic)?\n    override val fullscreenElement: Element?\n    override val
children: HTMLCollection\n    override val firstElementChild: Element?\n    override val lastElementChild:
Element?\n    override val childElementCount: Int\n    fun getElementsByTagName(qualifiedName: String):
HTMLCollection\n    fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n
    fun getElementsByClassName(classNames: String): HTMLCollection\n    fun createElement(localName: String,
options:
    ElementCreationOptions = definedExternally): Element\n    fun createElementNS(namespace: String?,
qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n    fun
createDocumentFragment(): DocumentFragment\n    fun createTextNode(data: String): Text\n    fun
createCDATASection(data: String): CDATASection\n    fun createComment(data: String): Comment\n    fun
createProcessingInstruction(target: String, data: String): ProcessingInstruction\n    fun importNode(node: Node,
deep: Boolean = definedExternally): Node\n    fun adoptNode(node: Node): Node\n    fun
createAttribute(localName: String): Attr\n    fun createAttributeNS(namespace: String?, qualifiedName: String):
Attr\n    fun createEvent(`interface`: String): Event\n    fun createRange(): Range\n    fun createNodeIterator(root:
Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n    fun
createNodeIterator(root: Node, whatToShow: Int = definedExternally,
    filter: ((Node) -> Short)? = definedExternally): NodeIterator\n    fun createTreeWalker(root: Node, whatToShow:
Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker\n    fun createTreeWalker(root: Node,
whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n    fun
getElementsByName(elementName: String): NodeList\n    fun open(type: String = definedExternally, replace:
String = definedExternally): Document\n    fun open(url: String, name: String, features: String): Window\n    fun
close()\n    fun write(vararg text: String)\n    fun writeln(vararg text: String)\n    fun hasFocus(): Boolean\n    fun
execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally):
Boolean\n    fun queryCommandEnabled(commandId: String): Boolean\n    fun

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queryCommandIndeterm(commandId: String): Boolean\n fun queryCommandState(commandId: String):
Boolean\n fun queryCommandSupported(commandId:
String): Boolean\n fun queryCommandValue(commandId: String): String\n fun clear()\n fun
captureEvents()\n fun releaseEvents()\n fun elementFromPoint(x: Double, y: Double): Element?\n fun
elementsFromPoint(x: Double, y: Double): Array<Element>\n fun caretPositionFromPoint(x: Double, y: Double):
CaretPosition?\n fun createTouch(view: Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int,
screenX: Int, screenY: Int): Touch\n fun createTouchList(vararg touches: Touch): TouchList\n fun
exitFullscreen(): Promise<Unit>\n override fun getElementById(elementId: String): Element?\n override fun
prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun
querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override
fun convertQuadFromNode(quad: dynamic, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val
DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String):
dynamic = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n *\npublic external
open class XMLDocument : Document {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED:
Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val
DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
ElementCreationOptions {\n var `is`: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String?
= undefined): ElementCreationOptions {\n val o = js(\"{\}\")\n o[\"is\"] = `is`\n return o\n}\n\n/**\n *
Exposes the JavaScript
[DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n
*\npublic external abstract class DOMImplementation {\n fun createDocumentType(qualifiedName: String,
publicId: String, systemId: String): DocumentType\n fun createDocument(namespace:

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String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument\n fun
createHTMLDocument(title: String = definedExternally): Document\n fun hasFeature(): Boolean\n}\n\n/**\n *
Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to
Kotlin\n */\npublic external abstract class DocumentType : Node, ChildNode {\n open val name: String\n open
val publicId: String\n open val systemId: String\n\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED:
Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val
DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\n */\npublic
external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n override val children:
HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n
override val childElementCount: Int\n override fun getElementById(elementId: String): Element?\n override fun
prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun
querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n\n
companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic external open
class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n open val mode: ShadowRootMode\n
open val host: Element\n
override val fullscreenElement: Element?\n\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n */\npublic external abstract class
Element : Node, ParentNode,
NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrHTMLCollection,
UnionElementOrRadioNodeList, UnionElementOrMouseEvent, UnionElementOrProcessingInstruction {\n open

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val namespaceURI: String?
open val prefix: String?
open val localName: String
open val tagName: String
open var id: String
open var className: String
open val classList: DOMTokenList
open var slot: String
open val attributes: NamedNodeMap
open val shadowRoot: ShadowRoot?
open var scrollTop: Double
open var scrollLeft: Double
open val scrollWidth: Int
open val scrollHeight: Int
open val clientTop: Int
open val clientLeft: Int
open val clientWidth: Int
open val clientHeight: Int
open var innerHTML: String
open var outerHTML: String
fun hasAttributes(): Boolean
fun getAttributeNames(): Array<String>
fun getAttribute(qualifiedName: String): String?
fun getAttributeNS(namespace: String?, localName: String): String?
fun setAttribute(qualifiedName: String, value: String)
fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)
fun removeAttribute(qualifiedName: String)
fun removeAttributeNS(namespace: String?, localName: String)
fun hasAttribute(qualifiedName: String): Boolean
fun hasAttributeNS(namespace: String?, localName: String): Boolean
fun getAttributeNode(qualifiedName: String): Attr?
fun getAttributeNodeNS(namespace: String?, localName: String): Attr?
fun setAttributeNode(attr: Attr): Attr?
fun setAttributeNodeNS(attr: Attr): Attr?
fun removeAttributeNode(attr: Attr): Attr?
fun attachShadow(init: ShadowRootInit): ShadowRoot
fun closest(selectors: String): Element?
fun matches(selectors: String): Boolean
fun webkitMatchesSelector(selectors: String): Boolean
fun getElementsByTagName(qualifiedName: String): HTMLCollection
fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection
fun getElementsByTagName(className: String): HTMLCollection
fun insertAdjacentElement(where: String, element: Element): Element?
fun insertAdjacentText(where: String, data: String)
fun getClientRects(): Array<DOMRect>
fun getBoundingClientRect(): DOMRect
fun scrollIntoView()
fun scrollIntoView(arg: dynamic)
fun scroll(options: ScrollToOptions = definedExternally)
fun scroll(x: Double, y: Double)
fun scrollTo(options: ScrollToOptions = definedExternally)
fun scrollTo(x: Double, y: Double)
fun scrollBy(options: ScrollToOptions = definedExternally)
fun scrollBy(x: Double, y: Double)
fun insertAdjacentHTML(position: String, text: String)
fun setPointerCapture(pointerId: Int)
fun releasePointerCapture(pointerId: Int)
fun hasPointerCapture(pointerId: Int): Boolean
fun requestFullscreen(): Promise<Unit>
companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}
}

public external interface ShadowRootInit {
    var mode: ShadowRootMode?
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun ShadowRootInit(mode: ShadowRootMode?): ShadowRootInit {
    val o = js("{}")
    o["mode"] = mode
    return o
}

/** Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin */
public external abstract class NamedNodeMap : ItemArrayLike<Attr> {
    fun getNamedItemNS(namespace: String?, localName: String): Attr?
    fun setNamedItem(attr: Attr): Attr?
    fun setNamedItemNS(attr: Attr): Attr?
    fun removeNamedItem(qualifiedName: String): Attr?
    fun removeNamedItemNS(namespace: String?, localName: String): Attr?
    override fun item(index: Int): Attr?
    fun getNamedItem(qualifiedName: String): Attr?
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun NamedNodeMap.get(index:

```

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Int): Attr? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes
the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n\n*\n\npublic external abstract
class Attr : Node {\n\n    open val namespaceURI: String?\n\n    open val prefix: String?\n\n    open val localName:
String\n\n    open val name: String\n\n    open var value: String\n\n    open val ownerElement: Element?\n\n    open val
specified: Boolean\n\n\n    companion object {\n\n        val ELEMENT_NODE: Short\n\n        val ATTRIBUTE_NODE:
Short\n\n        val TEXT_NODE: Short\n\n        val CDATA_SECTION_NODE: Short\n\n        val
ENTITY_REFERENCE_NODE: Short\n\n        val ENTITY_NODE: Short\n\n        val
PROCESSING_INSTRUCTION_NODE: Short\n\n        val COMMENT_NODE: Short\n\n        val
DOCUMENT_NODE: Short\n\n        val DOCUMENT_TYPE_NODE: Short\n\n        val
DOCUMENT_FRAGMENT_NODE: Short\n\n        val NOTATION_NODE: Short\n\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n\n        val DOCUMENT_POSITION_PRECEDING: Short\n\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n\n        val DOCUMENT_POSITION_CONTAINS:
Short\n\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n\n    }\n\n}\n\n\n/**\n * Exposes the JavaScript
[CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n\n*\n\npublic external
abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n\n    open var data: String\n\n    open
val length: Int\n\n    fun substringData(offset: Int, count: Int): String\n\n    fun appendData(data: String)\n\n    fun
insertData(offset: Int, data: String)\n\n    fun deleteData(offset: Int, count: Int)\n\n    fun replaceData(offset: Int, count:
Int, data: String)\n\n\n    companion object {\n\n        val ELEMENT_NODE: Short\n\n        val ATTRIBUTE_NODE:
Short\n\n        val TEXT_NODE: Short\n\n        val CDATA_SECTION_NODE: Short\n\n        val
ENTITY_REFERENCE_NODE: Short\n\n        val ENTITY_NODE: Short\n\n        val
PROCESSING_INSTRUCTION_NODE: Short\n\n        val COMMENT_NODE: Short\n\n        val
DOCUMENT_NODE:
Short\n\n        val DOCUMENT_TYPE_NODE: Short\n\n        val DOCUMENT_FRAGMENT_NODE: Short\n
        val NOTATION_NODE: Short\n\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n\n        val
DOCUMENT_POSITION_PRECEDING: Short\n\n        val DOCUMENT_POSITION_FOLLOWING: Short\n\n
        val DOCUMENT_POSITION_CONTAINS: Short\n\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n\n    }\n\n}\n\n\n/**\n * Exposes
the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n\n*\n\npublic external open
class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n\n    open val wholeText:
String\n\n    override val assignedSlot: HTMLSlotElement?\n\n    override val previousElementSibling: Element?\n\n
    override val nextElementSibling: Element?\n\n    fun splitText(offset: Int): Text\n\n    override fun
getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n\n    override fun
convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n\n    override
fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n\n    override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n    override fun before(vararg nodes:
dynamic)\n\n    override fun after(vararg nodes: dynamic)\n\n    override fun replaceWith(vararg nodes: dynamic)\n\n
    override fun remove()\n\n\n    companion object {\n\n        val ELEMENT_NODE: Short\n\n        val
ATTRIBUTE_NODE: Short\n\n        val TEXT_NODE: Short\n\n        val CDATA_SECTION_NODE: Short\n\n        val
ENTITY_REFERENCE_NODE: Short\n\n        val ENTITY_NODE: Short\n\n        val
PROCESSING_INSTRUCTION_NODE: Short\n\n        val COMMENT_NODE: Short\n\n        val
DOCUMENT_NODE: Short\n\n        val DOCUMENT_TYPE_NODE: Short\n\n        val
DOCUMENT_FRAGMENT_NODE:

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Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n
*/\npublic external open class CDATASection : Text {\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE:
Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to
Kotlin\n */\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle,
UnionElementOrProcessingInstruction {\n    open val target: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE:
Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin\n */\npublic external open class
Comment(data: String = definedExternally) : CharacterData {\n    override val previousElementSibling: Element?\n
override val nextElementSibling: Element?\n    override fun before(vararg nodes: dynamic)\n    override fun
after(vararg nodes: dynamic)\n    override fun replaceWith(vararg nodes: dynamic)\n    override fun remove()\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin\n */\npublic external open class Range {\n
open val startContainer: Node\n    open val startOffset: Int\n    open val endContainer: Node\n    open val
endOffset: Int\n    open val collapsed: Boolean\n    open val commonAncestorContainer:
Node\n    fun setStart(node: Node, offset: Int)\n    fun setEnd(node: Node, offset: Int)\n    fun setStartBefore(node:
Node)\n    fun setStartAfter(node: Node)\n    fun setEndBefore(node: Node)\n    fun setEndAfter(node: Node)\n
fun collapse(toStart: Boolean = definedExternally)\n    fun selectNode(node: Node)\n    fun
selectNodeContents(node: Node)\n    fun compareBoundaryPoints(how: Short, sourceRange: Range): Short\n    fun

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deleteContents()\n fun extractContents(): DocumentFragment\n fun cloneContents(): DocumentFragment\n fun insertNode(node: Node)\n fun surroundContents(newParent: Node)\n fun cloneRange(): Range\n fun detach()\n fun isPointInRange(node: Node, offset: Int): Boolean\n fun comparePoint(node: Node, offset: Int): Short\n fun intersectsNode(node: Node): Boolean\n fun getClientRects(): Array<DOMRect>\n fun getBoundingClientRect(): DOMRect\n fun createContextualFragment(fragment: String): DocumentFragment\n\ncompanion object
{\n    val START_TO_START: Short\n    val START_TO_END: Short\n    val END_TO_END: Short\n    val END_TO_START: Short\n}\n}\n\n/**\n * Exposes the JavaScript
[NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\n */\n\npublic external abstract class NodeIterator {\n    open val root: Node\n    open val referenceNode: Node\n    open val pointerBeforeReferenceNode: Boolean\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    fun nextNode(): Node?\n    fun previousNode(): Node?\n    fun detach()\n}\n\n/**\n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\n */\n\npublic external abstract class TreeWalker {\n    open val root: Node\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    open var currentNode: Node\n    fun parentNode(): Node?\n    fun firstChild(): Node?\n    fun lastChild(): Node?\n    fun previousSibling(): Node?\n    fun nextSibling(): Node?\n    fun previousNode(): Node?\n    fun nextNode(): Node?\n}\n\n/**\n * Exposes the JavaScript
[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n */\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface NodeFilter {\n    fun acceptNode(node: Node): Short\n\n    companion object {\n        val FILTER_ACCEPT: Short\n        val FILTER_REJECT: Short\n        val FILTER_SKIP: Short\n        val SHOW_ALL: Int\n        val SHOW_ELEMENT: Int\n        val SHOW_ATTRIBUTE: Int\n        val SHOW_TEXT: Int\n        val SHOW_CDATA_SECTION: Int\n        val SHOW_ENTITY_REFERENCE: Int\n        val SHOW_ENTITY: Int\n        val SHOW_PROCESSING_INSTRUCTION: Int\n        val SHOW_COMMENT: Int\n        val SHOW_DOCUMENT: Int\n        val SHOW_DOCUMENT_TYPE: Int\n        val SHOW_DOCUMENT_FRAGMENT: Int\n        val SHOW_NOTATION: Int\n    }\n}\n\n/**\n * Exposes the JavaScript
[DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin\n */\n\npublic external abstract class DOMTokenList : ItemArrayLike<String> {\n    open var value: String\n    fun contains(token: String): Boolean\n    fun add(vararg tokens: String)\n    fun remove(vararg tokens: String)\n    fun toggle(token: String, force: Boolean = definedExternally): Boolean\n    fun replace(token: String, newToken: String)\n    fun supports(token: String): Boolean\n    override fun item(index: Int): String?\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMTokenList.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\n */\n\npublic external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n    open val x: Double\n    open val y: Double\n    open val z: Double\n    open val w: Double\n    fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint\n}\n\n/**\n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n */\n\npublic external open class DOMPoint : DOMPointReadOnly {\n    constructor(point: DOMPointInit)\n    constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\n\n    override var x: Double\n    override var y: Double\n    override var z: Double\n    override var w: Double\n}\n\n/**\n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n */\n\npublic external interface DOMPointInit {\n    var x: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var y: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var z: Double? /* = 0.0 */\n    get() = definedExternally\n    set(value) = definedExternally

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definedExternally\n    var w: Double? /* = 1.0 */\n
    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DOMPointInit(x: Double? = 0.0, y:
Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n    val o = js(\"({})\")\n    o[\"x\"] = x\n
o[\"y\"] = y\n    o[\"z\"] = z\n    o[\"w\"] = w\n    return o}\n}\n\n/**\n * Exposes the JavaScript
[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n */\npublic external open class
DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally,
height: Double = definedExternally) : DOMRectReadOnly {\n    override var x: Double\n    override var y: Double\n
    override var width: Double\n    override var height: Double}\n}\n\n/**\n * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n */\npublic
external open class DOMRectReadOnly(x:
Double, y: Double, width: Double, height: Double) {\n    open val x: Double\n    open val y: Double\n    open val
width: Double\n    open val height: Double\n    open val top: Double\n    open val right: Double\n    open val bottom:
Double\n    open val left: Double}\n}\n\npublic external interface DOMRectInit {\n    var x: Double? /* = 0.0 */\n
get() = definedExternally\n    set(value) = definedExternally\n    var y: Double? /* = 0.0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var width: Double? /* = 0.0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var height: Double? /* = 0.0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x: Double? = 0.0, y:
Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\n    val o = js(\"({})\")\n
    o[\"x\"] = x\n    o[\"y\"] = y\n    o[\"width\"] = width\n    o[\"height\"] = height\n    return o}\n}\n\npublic external
interface DOMRectList : ItemArrayLike<DOMRect> {\n    override fun item(index: Int):
DOMRect?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMRectList.get(index: Int):
DOMRect? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n */\npublic external open class
DOMQuad {\n    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3:
DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n    constructor(rect: DOMRectInit)\n
open val p1: DOMPoint\n    open val p2: DOMPoint\n    open val p3: DOMPoint\n    open val p4: DOMPoint\n
open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly)
to Kotlin\n */\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n    open val
a: Double\n    open val b: Double\n    open val c: Double\n    open val d: Double\n    open val e: Double\n    open val
f: Double\n    open val m11: Double\n    open val m12: Double\n    open val m13: Double\n    open val m14:
Double\n    open val m21: Double\n    open val m22: Double\n    open val m23: Double\n    open val m24: Double\n
open val m31: Double\n    open val m32: Double\n    open val m33: Double\n    open val m34: Double\n    open val
m41: Double\n    open val m42: Double\n    open val m43: Double\n    open val m44: Double\n    open val is2D:
Boolean\n    open val isIdentity: Boolean\n    fun translate(tx: Double, ty: Double, tz: Double = definedExternally):
DOMMatrix\n    fun scale(scale: Double, originX: Double = definedExternally, originY: Double =
definedExternally): DOMMatrix\n    fun scale3d(scale: Double, originX: Double = definedExternally,
originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n    fun
scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally,
originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally):
DOMMatrix\n    fun rotate(angle: Double, originX: Double = definedExternally, originY: Double =
definedExternally): DOMMatrix\n    fun rotateFromVector(x: Double, y: Double): DOMMatrix\n    fun
rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n    fun skewX(sx: Double):
DOMMatrix\n    fun skewY(sy: Double): DOMMatrix\n    fun multiply(other: DOMMatrix): DOMMatrix\n    fun

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flipX(): DOMMatrix\n fun flipY(): DOMMatrix\n fun inverse(): DOMMatrix\n fun transformPoint(point:
DOMPointInit = definedExternally): DOMPoint\n fun toFloat32Array(): Float32Array\n fun toFloat64Array():
Float64Array\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix)
to Kotlin\n *\npublic external open class DOMMatrix() : DOMMatrixReadOnly {\n constructor(transformList:
String)\n constructor(other: DOMMatrixReadOnly)\n constructor(array32: Float32Array)\n
constructor(array64: Float64Array)\n constructor(numberSequence: Array<Double>)\n override var a: Double\n
override var b: Double\n override var c: Double\n override var d: Double\n override var e: Double\n
override var f: Double\n override var m11: Double\n override var m12: Double\n override var m13: Double\n
override var m14: Double\n override var m21: Double\n override var m22: Double\n override var m23:
Double\n override var m24: Double\n override var m31: Double\n override var m32: Double\n override var
m33: Double\n override var m34: Double\n override var m41: Double\n override var m42: Double\n override
var m43: Double\n override var m44: Double\n
fun multiplySelf(other: DOMMatrix): DOMMatrix\n fun preMultiplySelf(other: DOMMatrix): DOMMatrix\n
fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun scaleSelf(scale:
Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun
scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ:
Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double =
definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX:
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x:
Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n fun skewXSelf(sx:
Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun invertSelf(): DOMMatrix\n fun
setMatrixValue(transformList: String): DOMMatrix\n}\n\npublic external interface ScrollOptions {\n var
behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollOptions(behavior:
ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js(\"({})\")\n o[\"behavior\"] = behavior\n
return o}\n\n/**\n * Exposes the JavaScript
[ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n *\npublic external
interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var top: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? =
undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n
val o = js(\"({})\")\n o[\"left\"] = left\n o[\"top\"] = top\n o[\"behavior\"] = behavior\n return o}\n\n/**\n *
Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to
Kotlin\n *\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val
matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n
fun addListener(listener: ((Event) -> Unit)?)\n fun removeListener(listener: EventListener?)\n fun
removeListener(listener: ((Event) -> Unit)?)\n}\n\n/**\n * Exposes the JavaScript
[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n
*\npublic
external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit =
definedExternally) : Event {\n open val media: String\n open val matches: Boolean\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n var

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media: String? /* = "" */\n    get() = definedExternally\n    set(value) = definedExternally\n    var matches:
Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media:
String? = "", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): MediaQueryListEventInit {\n    val o = js("{}")\n    o["media"] = media\n    o["matches"] = matches\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n */\npublic external abstract class
Screen {\n    open val availWidth: Int\n    open val availHeight: Int\n    open val width: Int\n    open val height: Int\n    open val colorDepth: Int\n    open val pixelDepth: Int\n}\n\n/**\n * Exposes the JavaScript
[CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n */\npublic external
abstract class CaretPosition {\n    open val offsetNode: Node\n    open val offset: Int\n    fun getClientRect():
DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n    var block:
ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var inline: ScrollLogicalPosition? /*
= ScrollLogicalPosition.CENTER */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollIntoViewOptions(block:
ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? =
ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {\n
val o = js("{}")\n    o["block"] = block\n    o["inline"] = inline\n    o["behavior"] = behavior\n    return
o\n}\n\npublic external interface BoxQuadOptions {\n    var box: CSSBoxType? /* = CSSBoxType.BORDER */\n
get() = definedExternally\n    set(value) = definedExternally\n    var relativeTo: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType?
= CSSBoxType.BORDER,
relativeTo: dynamic = undefined): BoxQuadOptions {\n    val o = js("{}")\n    o["box"] = box\n
o["relativeTo"] = relativeTo\n    return o\n}\n\npublic external interface ConvertCoordinateOptions {\n    var
fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var toBox: CSSBoxType? /* = CSSBoxType.BORDER */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConvertCoordinateOptions(fromBox:
CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER):
ConvertCoordinateOptions {\n    val o = js("{}")\n    o["fromBox"] = fromBox\n    o["toBox"] = toBox\n
return o\n}\n\n/**\n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n */\npublic external
interface GeometryUtils {\n    fun
getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>\n    fun
convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally):
DOMQuad\n    fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMQuad\n    fun convertPointFromNode(point: DOMPointInit,
from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMPoint\n}\n\n/**\n * Exposes the
JavaScript [Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\n */\npublic external abstract
class Touch {\n    open val identifier: Int\n    open val target: EventTarget\n    open val screenX: Int\n    open val
screenY: Int\n    open val clientX: Int\n    open val clientY: Int\n    open val pageX: Int\n    open val pageY: Int\n
open val region: String?\n}\n\npublic external abstract class TouchList : ItemArrayLike<Touch> {\n    override fun
item(index: Int): Touch?\n}\n\n@Suppress("INVISIBLE_REFERENCE",

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\ "INVISIBLE_MEMBER" )\n @kotlin.internal.InlineOnly\n public inline operator fun TouchList.get(index: Int):
Touch? = asDynamic()[index]\n\n public external open class TouchEvent : UIEvent {\n    open val touches:
TouchList\n    open val targetTouches: TouchList\n    open val changedTouches: TouchList\n    open val altKey:
Boolean\n    open val metaKey: Boolean\n    open val ctrlKey: Boolean\n    open val shiftKey: Boolean\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET:
Short\n        val BUBBLING_PHASE: Short\n    }\n\n    /**\n     * Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n     */\n\n    public external open class
Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {\n        override var
onabort: ((Event) -> dynamic)?\n        override var onblur: ((FocusEvent) -> dynamic)?\n        override var oncancel:
((Event) -> dynamic)?\n        override
var oncanplay: ((Event) -> dynamic)?\n        override var oncanplaythrough: ((Event) -> dynamic)?\n        override var
onchange: ((Event) -> dynamic)?\n        override var onclick: ((MouseEvent) -> dynamic)?\n        override var onclose:
((Event) -> dynamic)?\n        override var oncontextmenu: ((MouseEvent) -> dynamic)?\n        override var oncuechange:
((Event) -> dynamic)?\n        override var ondblclick: ((MouseEvent) -> dynamic)?\n        override var ondrag:
((DragEvent) -> dynamic)?\n        override var ondragend: ((DragEvent) -> dynamic)?\n        override var ondragenter:
((DragEvent) -> dynamic)?\n        override var ondragexit: ((DragEvent) -> dynamic)?\n        override var ondragleave:
((DragEvent) -> dynamic)?\n        override var ondragover: ((DragEvent) -> dynamic)?\n        override var ondragstart:
((DragEvent) -> dynamic)?\n        override var ondrop: ((DragEvent) -> dynamic)?\n        override var ondurationchange:
((Event) -> dynamic)?\n        override var onemptied: ((Event) -> dynamic)?\n        override var onended: ((Event)
-> dynamic)?\n        override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n        override var onfocus:
((FocusEvent) -> dynamic)?\n        override var oninput: ((InputEvent) -> dynamic)?\n        override var oninvalid:
((Event) -> dynamic)?\n        override var onkeydown: ((KeyboardEvent) -> dynamic)?\n        override var onkeypress:
((KeyboardEvent) -> dynamic)?\n        override var onkeyup: ((KeyboardEvent) -> dynamic)?\n        override var onload:
((Event) -> dynamic)?\n        override var onloadeddata: ((Event) -> dynamic)?\n        override var onloadedmetadata:
((Event) -> dynamic)?\n        override var onloadend: ((Event) -> dynamic)?\n        override var onloadstart:
((ProgressEvent) -> dynamic)?\n        override var onmousedown: ((MouseEvent) -> dynamic)?\n        override var
onmouseenter: ((MouseEvent) -> dynamic)?\n        override var onmouseleave: ((MouseEvent) -> dynamic)?\n        override
var onmousemove: ((MouseEvent) -> dynamic)?\n        override var onmouseout: ((MouseEvent) ->
dynamic)?\n        override
var onmouseover: ((MouseEvent) -> dynamic)?\n        override var onmouseup: ((MouseEvent) -> dynamic)?\n        override
var onwheel: ((WheelEvent) -> dynamic)?\n        override var onpause: ((Event) -> dynamic)?\n        override
var onplay: ((Event) -> dynamic)?\n        override var onplaying: ((Event) -> dynamic)?\n        override var onprogress:
((ProgressEvent) -> dynamic)?\n        override var onratechange: ((Event) -> dynamic)?\n        override var onreset:
((Event) -> dynamic)?\n        override var onresize: ((Event) -> dynamic)?\n        override var onscroll: ((Event) ->
dynamic)?\n        override var onseeked: ((Event) -> dynamic)?\n        override var onseeking: ((Event) -> dynamic)?\n
        override var onselect: ((Event) -> dynamic)?\n        override var onshow: ((Event) -> dynamic)?\n        override
var onstalled: ((Event) -> dynamic)?\n        override var onsubmit: ((Event) -> dynamic)?\n        override var onsuspend:
((Event) -> dynamic)?\n        override var ontimeupdate: ((Event) -> dynamic)?\n        override var ontoggle:
((Event) -> dynamic)?\n        override var onvolumechange: ((Event) -> dynamic)?\n        override var onwaiting:
((Event) -> dynamic)?\n        override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n        override var
onlostpointercapture: ((PointerEvent) -> dynamic)?\n        override var onpointerdown: ((PointerEvent) -> dynamic)?\n
        override var onpointermove: ((PointerEvent) -> dynamic)?\n        override var onpointerup: ((PointerEvent) ->
dynamic)?\n        override var onpointercancel: ((PointerEvent) -> dynamic)?\n        override var onpointerover:
((PointerEvent) -> dynamic)?\n        override var onpointerout: ((PointerEvent) -> dynamic)?\n        override var
onpointerenter: ((PointerEvent) -> dynamic)?\n        override var onpointerleave: ((PointerEvent) -> dynamic)?\n
        override var oncopy: ((ClipboardEvent) -> dynamic)?\n        override var oncut: ((ClipboardEvent) -> dynamic)?\n
        override var onpaste: ((ClipboardEvent) -> dynamic)?\n        override var contentEditable: String\n        override val

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isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  override val previousElementSibling: Element?\n  override val
nextElementSibling: Element?\n  override val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg
nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String):
Element?\n  override fun querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes:
dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n
override fun remove()\n  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */):
Array<DOMQuad>\n  override fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions /* = definedExternally
*/): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options:
ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun convertPointFromNode(point:
DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n
companion object {\n  val ELEMENT_NODE: Short\n  val ATTRIBUTE_NODE: Short\n  val
TEXT_NODE: Short\n  val CDATA_SECTION_NODE: Short\n  val ENTITY_REFERENCE_NODE:
Short\n  val ENTITY_NODE: Short\n  val PROCESSING_INSTRUCTION_NODE: Short\n  val
COMMENT_NODE: Short\n  val DOCUMENT_NODE: Short\n  val DOCUMENT_TYPE_NODE: Short\n
  val DOCUMENT_FRAGMENT_NODE: Short\n  val NOTATION_NODE: Short\n  val
DOCUMENT_POSITION_DISCONNECTED: Short\n  val DOCUMENT_POSITION_PRECEDING: Short\n
  val DOCUMENT_POSITION_FOLLOWING: Short\n  val DOCUMENT_POSITION_CONTAINS: Short\n
  val DOCUMENT_POSITION_CONTAINED_BY:
Short\n  val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\npublic external
open class Audio(src: String = definedExternally) : HTMLAudioElement {\n  override var onabort: ((Event) ->
dynamic)?\n  override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel: ((Event) -> dynamic)?\n
override var oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough: ((Event) -> dynamic)?\n
override var onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) -> dynamic)?\n  override
var onclose: ((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) -> dynamic)?\n  override var
oncuechange: ((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) -> dynamic)?\n  override var
ondrag: ((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) -> dynamic)?\n  override var
ondragenter: ((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) -> dynamic)?\n
  override var ondragleave: ((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent) -> dynamic)?\n
override var ondragstart: ((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) -> dynamic)?\n
override var ondurationchange: ((Event) -> dynamic)?\n  override var onemptied: ((Event) -> dynamic)?\n
override var onended: ((Event) -> dynamic)?\n  override var onerror: ((dynamic, String, Int, Int, Any?) ->
dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) ->
dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n  override var onkeyup:
((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override var onloadeddata:
((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var onloadend:
((Event) -> dynamic)?\n
  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var onmousedown: ((MouseEvent) ->
dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n  override var onmouseleave:
((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) -> dynamic)?\n  override var
onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) -> dynamic)?\n  override
var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) -> dynamic)?\n  override
var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n  override var onplaying:
((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n  override var onratechange:
((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var onresize: ((Event) ->

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dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n
override var onseeking:
  ((Event) -> dynamic)?\n  override var onselect: ((Event) -> dynamic)?\n  override var onshow: ((Event) ->
dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n  override var onsubmit: ((Event) -> dynamic)?\n
override var onsuspend: ((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) -> dynamic)?\n  override
var ontoggle: ((Event) -> dynamic)?\n  override var onvolumechange: ((Event) -> dynamic)?\n  override var
onwaiting: ((Event) -> dynamic)?\n  override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override
var onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var onpointerdown: ((PointerEvent) ->
dynamic)?\n  override var onpointermove: ((PointerEvent) -> dynamic)?\n  override var onpointerup:
((PointerEvent) -> dynamic)?\n  override var onpointercancel: ((PointerEvent) -> dynamic)?\n  override var
onpointerover: ((PointerEvent) -> dynamic)?\n  override var onpointerout: ((PointerEvent) -> dynamic)?\n
  override var onpointerenter: ((PointerEvent) -> dynamic)?\n  override var onpointerleave: ((PointerEvent) ->
dynamic)?\n  override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) ->
dynamic)?\n  override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n
override val isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  override val previousElementSibling: Element?\n  override val
nextElementSibling: Element?\n  override val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg
nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String):
Element?\n  override fun querySelectorAll(selectors: String): NodeList\n  override fun before(vararg
nodes: dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes:
dynamic)\n  override fun remove()\n  override fun getBoxQuads(options: BoxQuadOptions /* =
definedExternally */): Array<DOMQuad>\n  override fun convertQuadFromNode(quad: dynamic, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n  companion object {\n    val
NETWORK_EMPTY: Short\n    val NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n    val HAVE_NOTHING: Short\n    val HAVE_METADATA:
Short\n    val HAVE_CURRENT_DATA: Short\n    val HAVE_FUTURE_DATA: Short\n    val
HAVE_ENOUGH_DATA:
Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n */\n\npublic external open class
Option(text: String = definedExternally, value: String = definedExternally, defaultSelected:
Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLInputElement {\n  override var
onabort: ((Event) -> dynamic)?\n  override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel:
((Event) -> dynamic)?\n  override var oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough:
((Event) -> dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) ->
dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n  override var oncuechange: ((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) ->

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dynamic)?\n  override var ondrag: ((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) ->
dynamic)?\n  override var ondragenter: ((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) ->
dynamic)?\n  override var ondragleave: ((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent)
-> dynamic)?\n  override var ondragstart: ((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) ->
dynamic)?\n  override var ondurationchange: ((Event) -> dynamic)?\n  override var onemptied: ((Event) ->
dynamic)?\n  override var onended: ((Event) -> dynamic)?\n  override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) -
> dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n  override var onkeyup:
((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override var onloadeddata:
((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var onloadend:
((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var onmousedown:
((MouseEvent)
-> dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n  override var onmouseleave:
((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) -> dynamic)?\n  override var
onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) -> dynamic)?\n  override
var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) -> dynamic)?\n  override
var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n  override var onplaying:
((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n  override var onratechange:
((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var onresize: ((Event) ->
dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n
override var onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) -> dynamic)?\n  override
var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n  override var onsubmit:
((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) -
> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var onvolumechange: ((Event) ->
dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var ongotpointercapture: ((PointerEvent)
-> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var onpointerdown:
((PointerEvent) -> dynamic)?\n  override var onpointermove: ((PointerEvent) -> dynamic)?\n  override var
onpointerup: ((PointerEvent) -> dynamic)?\n  override var onpointercancel: ((PointerEvent) -> dynamic)?\n
override var onpointerover: ((PointerEvent) -> dynamic)?\n  override var onpointerout: ((PointerEvent) ->
dynamic)?\n  override var onpointerenter: ((PointerEvent) -> dynamic)?\n  override var onpointerleave:
((PointerEvent) -> dynamic)?\n  override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut:
((ClipboardEvent) -> dynamic)?\n  override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override var
contentEditable: String\n  override val isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n
override val children: HTMLCollection\n  override val firstElementChild: Element?\n  override val
lastElementChild: Element?\n  override val childElementCount: Int\n  override val previousElementSibling:
Element?\n  override val nextElementSibling: Element?\n  override val assignedSlot: HTMLSlotElement?\n
override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun
querySelector(selectors: String): Element?\n  override fun querySelectorAll(selectors: String): NodeList\n
override fun before(vararg nodes: dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun
replaceWith(vararg
nodes: dynamic)\n  override fun remove()\n  override fun getBoxQuads(options: BoxQuadOptions /* =
definedExternally */): Array<DOMQuad>\n  override fun convertQuadFromNode(quad: dynamic, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val

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CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE:
Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface UnionElementOrHTMLCollection\n\npublic external interface UnionElementOrRadioNodeList\n\npublic
external interface UnionHTMLOptGroupElementOrHTMLOptionElement\n\npublic external interface
UnionAudioTrackOrTextTrackOrVideoTrack\n\npublic external interface UnionElementOrMouseEvent\n\npublic
external interface UnionMessagePortOrWindowProxy\n\npublic external interface MediaProvider\n\npublic
external interface RenderingContext\n\npublic external interface HTMLOrSVGImageElement :
CanvasImageSource\n\npublic external interface CanvasImageSource : ImageBitmapSource\n\npublic external
interface ImageBitmapSource\n\npublic
external interface HTMLOrSVGScriptElement\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface DocumentReadyState {\n    companion object\n}\n\npublic inline val
DocumentReadyState.Companion.LOADING: DocumentReadyState get() =
"loading".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
"interactive".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
"complete".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface CanPlayTypeResult {\n    companion object\n}\n\npublic inline val
CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() =
""\n\npublic
inline val CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() =
"maybe".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
"probably".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface TextTrackMode {\n    companion object\n}\n\npublic inline val TextTrackMode.Companion.DISABLED:
TextTrackMode get() = "disabled".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
"hidden".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
"showing".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface TextTrackKind {\n    companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES:
TextTrackKind get() = "subtitles".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
"captions".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
"descriptions".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
"chapters".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val

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TextTrackKind.Companion.METADATA: TextTrackKind get() =
\"metadata\".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface SelectionMode {\n  companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT:
SelectionMode get() = \"select\".asDynamic().unsafeCast<SelectionMode>()\n\npublic
inline val SelectionMode.Companion.START: SelectionMode get() =
\"start\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.END:
SelectionMode get() = \"end\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.PRESERVE: SelectionMode get() =
\"preserve\".asDynamic().unsafeCast<SelectionMode>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasFillRule {\n  companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = \"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
\"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ImageSmoothingQuality
{\n  companion object\n}\n\npublic inline val ImageSmoothingQuality.Companion.LOW:
ImageSmoothingQuality get() = \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
\"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
\"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasLineCap {\n  companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT:
CanvasLineCap get() = \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.ROUND: CanvasLineCap get() =
\"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE:
CanvasLineCap get() = \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/*
please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasLineJoin {\n  companion object\n}\n\npublic inline val CanvasLineJoin.Companion.ROUND:
CanvasLineJoin get() = \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() =
\"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.MITER:
CanvasLineJoin get() = \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this
interface! *\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface CanvasTextAlign {\n  companion object\n}\n\npublic inline val
CanvasTextAlign.Companion.START: CanvasTextAlign get() =
\"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.END:
CanvasTextAlign get()
= \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT:
CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() =
\"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
\"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external

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interface CanvasTextBaseline { \n  companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
\"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get()
= \"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
\"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
\"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasDirection { \n  companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR:
CanvasDirection get() = \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val
CanvasDirection.Companion.RTL: CanvasDirection get() =
\"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.INHERIT:
CanvasDirection
get() = \"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ScrollRestoration { \n  companion object\n}\n\npublic inline val ScrollRestoration.Companion.AUTO:
ScrollRestoration get() = \"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ImageOrientation { \n  companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE:
ImageOrientation get() = \"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val
ImageOrientation.Companion.FLIPY: ImageOrientation get() =
\"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please,
don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface PremultiplyAlpha { \n  companion object\n}\n\n\npublic inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
\"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ColorSpaceConversion { \n  companion object\n}\n\npublic inline val
ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
\"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion
get() = \"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ResizeQuality { \n  companion object\n}\n\n\npublic inline val ResizeQuality.Companion.PIXELATED:
ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.LOW: ResizeQuality get() =
\"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.MEDIUM:

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ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/*
please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface BinaryType {\n    companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType
get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val
BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
\"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface WorkerType {\n    companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC:
WorkerType get() = \"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val
WorkerType.Companion.MODULE: WorkerType get() =
\"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ShadowRootMode {\n    companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ScrollBehavior {\n    companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO:
ScrollBehavior get() = \"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.INSTANT: ScrollBehavior get() =
\"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.SMOOTH:
ScrollBehavior get() = \"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this
interface! */\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface ScrollLogicalPosition {\n    companion object\n}\n\npublic inline val
ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
\"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER:
ScrollLogicalPosition get() = \"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface CSSBoxType {\n    companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN:
CSSBoxType get() = \"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.BORDER: CSSBoxType get() =
\"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING:
CSSBoxType get() = \"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.CONTENT:
CSSBoxType get() = \"content\".asDynamic().unsafeCast<CSSBoxType>())\"/*\n\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.files.*\nimport org.w3c.xhr.*\n\n/**\n\n * Exposes the
JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n\n */\n\npublic external open
class Headers(init: dynamic = definedExternally) {\n    fun append(name: String, value: String)\n    fun delete(name:

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String)\n fun get(name: String): String?\n fun has(name: String): Boolean\n fun set(name: String, value:
String)\n}\n\n/**\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin\n */\npublic external
interface Body {\n val bodyUsed: Boolean\n fun arrayBuffer(): Promise<ArrayBuffer>\n fun blob():
Promise<Blob>\n fun formData(): Promise<FormData>\n fun json(): Promise<Any?>\n fun text():
Promise<String>\n}\n\n/**\n * Exposes the JavaScript
[Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n */\npublic external open class
Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n open val method: String\n open val
url: String\n open val headers: Headers\n open val type: RequestType\n open val destination:
RequestDestination\n open val referrer: String\n open val referrerPolicy: dynamic\n open val mode:
RequestMode\n open val credentials: RequestCredentials\n open val cache: RequestCache\n open val redirect:
RequestRedirect\n open val integrity: String\n open val keepalive: Boolean\n override val bodyUsed:
Boolean\n fun clone(): Request\n override fun arrayBuffer(): Promise<ArrayBuffer>\n
override fun blob(): Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json():
Promise<Any?>\n override fun text(): Promise<String>\n}\n\npublic external interface RequestInit {\n var
method: String?\n get() = definedExternally\n set(value) = definedExternally\n var headers: dynamic\n
get() = definedExternally\n set(value) = definedExternally\n var body: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var referrer: String?\n get() = definedExternally\n
set(value) = definedExternally\n var referrerPolicy: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var mode: RequestMode?\n get() = definedExternally\n set(value) =
definedExternally\n var credentials: RequestCredentials?\n get() = definedExternally\n set(value) =
definedExternally\n var cache: RequestCache?\n get()
= definedExternally\n set(value) = definedExternally\n var redirect: RequestRedirect?\n get() =
definedExternally\n set(value) = definedExternally\n var integrity: String?\n get() = definedExternally\n
set(value) = definedExternally\n var keepalive: Boolean?\n get() = definedExternally\n set(value) =
definedExternally\n var window: Any?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RequestInit(method: String? =
undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy:
dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache:
RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive:
Boolean? = undefined, window: Any? = undefined):
RequestInit {\n val o = js(\"({})\")\n o[\"method\"] = method\n o[\"headers\"] = headers\n o[\"body\"] =
body\n o[\"referrer\"] = referrer\n o[\"referrerPolicy\"] = referrerPolicy\n o[\"mode\"] = mode\n
o[\"credentials\"] = credentials\n o[\"cache\"] = cache\n o[\"redirect\"] = redirect\n o[\"integrity\"] = integrity\n
o[\"keepalive\"] = keepalive\n o[\"window\"] = window\n return o\n}\n\n/**\n * Exposes the JavaScript
[Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\n */\npublic external open class
Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {\n open val type:
ResponseType\n open val url: String\n open val redirected: Boolean\n open val status: Short\n open val ok:
Boolean\n open val statusText: String\n open val headers: Headers\n open val body: dynamic\n open val
trailer: Promise<Headers>\n override val bodyUsed: Boolean\n fun clone():
Response\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun blob(): Promise<Blob>\n
override fun formData(): Promise<FormData>\n override fun json(): Promise<Any?>\n override fun text():
Promise<String>\n}\n\ncompanion object {\n fun error(): Response\n fun redirect(url: String, status: Short =
definedExternally): Response\n }\n}\n\npublic external interface ResponseInit {\n var status: Short? /* = 200
*/\n get() = definedExternally\n set(value) = definedExternally\n var statusText: String? /* = \"OK\" */\n
get() = definedExternally\n set(value) = definedExternally\n var headers: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\INVISIBLE_MEMBER\)\n@kotlin.internal.InlineOnly\npublic inline fun ResponseInit(status: Short? = 200,
statusText: String? = \"OK\", headers: dynamic = undefined): ResponseInit {
    val o = js(\"({})\")\n
    o[\"status\"] = status\n    o[\"statusText\"] = statusText\n    o[\"headers\"] = headers\n    return o\n}\n/* please,
don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface RequestType {\n    companion object\n}\n\npublic inline val RequestType.Companion.EMPTY:
RequestType get() = \"\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.AUDIO: RequestType get() =
\"audio\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.FONT:
RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.IMAGE: RequestType get() =
\"image\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.SCRIPT:
RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.STYLE: RequestType get() =
\"style\".asDynamic().unsafeCast<RequestType>()\n\npublic
inline val RequestType.Companion.TRACK: RequestType get() =
\"track\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.VIDEO:
RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n/* please, don't implement this
interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
external interface RequestDestination {\n    companion object\n}\n\npublic inline val
RequestDestination.Companion.EMPTY: RequestDestination get() =
\"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.DOCUMENT: RequestDestination get() =
\"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
\"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.FONT: RequestDestination get() =
\"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline
val RequestDestination.Companion.IMAGE: RequestDestination get() =
\"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
\"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
\"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.OBJECT: RequestDestination get() =
\"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.REPORT: RequestDestination get() =
\"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
\"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
\"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline
val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
\"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
\"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
\"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val

```

```

RequestDestination.Companion.XSLT: RequestDestination get() =
`xslt`.asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface RequestMode {\n  companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE:
RequestMode get() = `navigate`.asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = `same-
origin`.asDynamic().unsafeCast<RequestMode>()\n\npublic
inline val RequestMode.Companion.NO_CORS: RequestMode get() = `no-
cors`.asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.CORS:
RequestMode get() = `cors`.asDynamic().unsafeCast<RequestMode>()\n\n/* please, don't implement this
interface! *\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface RequestCredentials {\n  companion object\n}\n\npublic inline val
RequestCredentials.Companion.OMIT: RequestCredentials get() =
`omit`.asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = `same-
origin`.asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
`include`.asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface
  RequestCache {\n  companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT:
RequestCache get() = `default`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_STORE: RequestCache get() = `no-
store`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD:
RequestCache get() = `reload`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_CACHE: RequestCache get() = `no-
cache`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = `force-
cache`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = `only-if-
cached`.asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface RequestRedirect {\n  companion object\n}\n\npublic
inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() =
`follow`.asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR:
RequestRedirect get() = `error`.asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.MANUAL: RequestRedirect get() =
`manual`.asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface ResponseType {\n  companion object\n}\n\npublic inline val ResponseType.Companion.BASIC:
ResponseType get() = `basic`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.CORS: ResponseType get() =
`cors`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT:
ResponseType get() = `default`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.ERROR:
  ResponseType get() = `error`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUE: ResponseType get() =
`opaque`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val

```

```

ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
  \"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()\", \"/*\n * Copyright 2010-2021 JetBrains s.r.o. and
  Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
  can be found in the license/LICENSE.txt file.\n *^\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
  EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport
  kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes
  the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n *^\n\npublic
  external open class MediaStream() : EventTarget, MediaProvider {\n  constructor(stream:
  MediaStream)\n  constructor(tracks: Array<MediaStreamTrack>)\n  open val id: String\n  open val active:
  Boolean\n  var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?\n  var onremovetrack:
  ((MediaStreamTrackEvent) -> dynamic)?\n  fun getAudioTracks(): Array<MediaStreamTrack>\n  fun
  getVideoTracks(): Array<MediaStreamTrack>\n  fun getTracks(): Array<MediaStreamTrack>\n  fun
  getTrackById(trackId: String): MediaStreamTrack?\n  fun addTrack(track: MediaStreamTrack)\n  fun
  removeTrack(track: MediaStreamTrack)\n  fun clone(): MediaStream\n}\n\n/**\n * Exposes the JavaScript
  [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n *^\n\npublic
  external abstract class MediaStreamTrack : EventTarget {\n  open val kind: String\n  open val id: String\n  open
  val label: String\n  open var enabled: Boolean\n  open val muted: Boolean\n  open var onmute: ((Event) ->
  dynamic)?\n  open var onunmute: ((Event) -> dynamic)?\n
  open val readyState: MediaStreamTrackState\n  open var onended: ((Event) -> dynamic)?\n  open var
  onoverconstrained: ((Event) -> dynamic)?\n  fun clone(): MediaStreamTrack\n  fun stop()\n  fun
  getCapabilities(): MediaTrackCapabilities\n  fun getConstraints(): MediaTrackConstraints\n  fun getSettings():
  MediaTrackSettings\n  fun applyConstraints(constraints: MediaTrackConstraints = definedExternally):
  Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
  [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstrain
  ts) to Kotlin\n *^\n\npublic external interface MediaTrackSupportedConstraints {\n  var width: Boolean? /* = true
  */\n  get() = definedExternally\n  set(value) = definedExternally\n  var height: Boolean? /* = true */\n
  get() = definedExternally\n  set(value) = definedExternally\n  var aspectRatio: Boolean? /* = true */\n  get()
  = definedExternally\n  set(value) = definedExternally\n
  var frameRate: Boolean? /* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
  facingMode: Boolean? /* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
  resizeMode: Boolean? /* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
  volume: Boolean? /* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
  sampleRate: Boolean? /* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
  sampleSize: Boolean? /* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
  echoCancellation: Boolean? /* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n
  var autoGainControl: Boolean? /* = true */\n  get() = definedExternally\n  set(value) = definedExternally\n
  var noiseSuppression: Boolean? /* = true
  */\n  get() = definedExternally\n  set(value) = definedExternally\n  var latency: Boolean? /* = true */\n
  get() = definedExternally\n  set(value) = definedExternally\n  var channelCount: Boolean? /* = true */\n
  get() = definedExternally\n  set(value) = definedExternally\n  var deviceId: Boolean? /* = true */\n  get() =
  definedExternally\n  set(value) = definedExternally\n  var groupId: Boolean? /* = true */\n  get() =
  definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
  \"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
  MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true,
  frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true,
  sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl:
  Boolean? = true,

```

```

noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? =
true, groupId: Boolean? = true): MediaTrackSupportedConstraints {
    val o = js("{}")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

public external interface MediaTrackCapabilities {
    var width: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var height: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var aspectRatio: DoubleRange?
    get() = definedExternally
    set(value) = definedExternally
    var frameRate: DoubleRange?
    get() = definedExternally
    set(value) = definedExternally
    var facingMode: Array<String>?
    get() = definedExternally
    set(value) = definedExternally
    var resizeMode: Array<String>?
    get() = definedExternally
    set(value) = definedExternally
    var volume: DoubleRange?
    get() = definedExternally
    set(value) = definedExternally
    var sampleRate: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var sampleSize: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var echoCancellation: Array<Boolean>?
    get() = definedExternally
    set(value) = definedExternally
    var autoGainControl: Array<Boolean>?
    get() = definedExternally
    set(value) = definedExternally
    var noiseSuppression: Array<Boolean>?
    get() = definedExternally
    set(value) = definedExternally
    var latency: DoubleRange?
    get() = definedExternally
    set(value) = definedExternally
    var channelCount: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var deviceId: String?
    get() = definedExternally
    set(value) = definedExternally
    var groupId: String?
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaTrackCapabilities(width: ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined, frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? = undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize: ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>? = undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount: ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities {
    val o = js("{}")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/** Exposes the JavaScript [MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin */
public external interface MediaTrackConstraints : MediaTrackConstraintSet {
    var advanced: Array<MediaTrackConstraintSet>?
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaTrackConstraints(advanced: Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined,

```



```

noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined,
deviceId: dynamic = undefined,
groupId: dynamic = undefined): MediaTrackConstraints {
    val o = js("{}")
    o["advanced"] = advanced
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] =
frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] =
echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] =
groupId
    return o
}

public external interface MediaTrackConstraintSet {
    var width: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var height: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var aspectRatio: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var frameRate: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var facingMode: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var resizeMode: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var volume: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var sampleRate: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var sampleSize: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var echoCancellation: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var autoGainControl: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var noiseSuppression: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var latency: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var channelCount: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var deviceId: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var groupId: dynamic
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaTrackConstraintSet(
    width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined,
    facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined,
    sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined,
    latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraintSet {
    val o = js("{}")
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}

/** Exposes the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin */
public external interface MediaTrackSettings {
    var width: Int?
    get() = definedExternally
    set(value) = definedExternally
    var height: Int?
    get() = definedExternally
    set(value) = definedExternally
    var aspectRatio: Double?
    get() = definedExternally
    set(value) = definedExternally
    var frameRate: Double?
    get() = definedExternally
    set(value) = definedExternally
    var facingMode: String?
    get() = definedExternally
    set(value) = definedExternally
    var resizeMode: String?
    get() = definedExternally
    set(value) = definedExternally
    var volume: Double?
    get() = definedExternally
    set(value) = definedExternally
    var sampleRate: Int?
    get() = definedExternally
    set(value) = definedExternally
    var sampleSize: Int?
    get() = definedExternally
    set(value) = definedExternally
}

```

```

var echoCancellation: Boolean? \n    get() = definedExternally \n    set(value) = definedExternally \n    var
autoGainControl: Boolean? \n    get() = definedExternally \n
    set(value) = definedExternally \n    var noiseSuppression: Boolean? \n    get() = definedExternally \n
set(value) = definedExternally \n    var latency: Double? \n    get() = definedExternally \n    set(value) =
definedExternally \n    var channelCount: Int? \n    get() = definedExternally \n    set(value) = definedExternally \n
    var deviceId: String? \n    get() = definedExternally \n    set(value) = definedExternally \n    var groupId:
String? \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun MediaTrackSettings(width: Int? =
undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int?
= undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl:
Boolean? = undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int?
= undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings { \n    val o =
js("{}") \n    o["width"] = width \n    o["height"] = height \n    o["aspectRatio"] = aspectRatio \n
o["frameRate"] = frameRate \n    o["facingMode"] = facingMode \n    o["resizeMode"] = resizeMode \n
o["volume"] = volume \n    o["sampleRate"] = sampleRate \n    o["sampleSize"] = sampleSize \n
o["echoCancellation"] = echoCancellation \n    o["autoGainControl"] = autoGainControl \n
o["noiseSuppression"] = noiseSuppression \n    o["latency"] = latency \n    o["channelCount"] = channelCount \n
o["deviceId"] = deviceId \n    o["groupId"] = groupId \n    return o \n} \n \n /** \n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin \n
*/ \n public external open
class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) : Event { \n    open val
track: MediaStreamTrack \n \n    companion object { \n        val NONE: Short \n        val CAPTURING_PHASE:
Short \n        val AT_TARGET: Short \n        val BUBBLING_PHASE: Short \n    } \n \n \n public external interface
MediaStreamTrackEventInit : EventInit { \n    var track:
MediaStreamTrack? \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun MediaStreamTrackEventInit(track:
MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
MediaStreamTrackEventInit { \n    val o = js("{}") \n    o["track"] = track \n    o["bubbles"] = bubbles \n
o["cancelable"] = cancelable \n    o["composed"] = composed \n    return o \n} \n \n public external open class
OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event { \n    open val error:
dynamic \n \n
    companion object { \n        val NONE: Short \n        val CAPTURING_PHASE: Short \n        val AT_TARGET:
Short \n        val BUBBLING_PHASE: Short \n    } \n \n \n public external interface OverconstrainedErrorEventInit :
EventInit { \n    var error: dynamic /* = null */ \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun OverconstrainedErrorEventInit(error:
dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
OverconstrainedErrorEventInit { \n    val o = js("{}") \n    o["error"] = error \n    o["bubbles"] = bubbles \n
o["cancelable"] = cancelable \n    o["composed"] = composed \n    return o \n} \n \n /** \n * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin \n
*/ \n public external
abstract class MediaDevices : EventTarget { \n    open var ondevicechange:
((Event) -> dynamic)? \n    fun enumerateDevices(): Promise<Array<MediaDeviceInfo>> \n    fun
getSupportedConstraints(): MediaTrackSupportedConstraints \n    fun getUserMedia(constraints:
MediaStreamConstraints = definedExternally): Promise<MediaStream> \n} \n \n /** \n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin \n
*/ \n public external abstract class MediaDeviceInfo { \n    open val deviceId: String \n    open val kind: MediaDeviceKind \n

```

```

open val label: String\n  open val groupId: String\n  fun toJSON(): dynamic\n}\n\npublic external abstract class
InputDeviceInfo : MediaDeviceInfo {\n  fun getCapabilities(): MediaTrackCapabilities\n}\n\n/**\n * Exposes the
JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to
Kotlin\n */\npublic external interface MediaStreamConstraints {\n  var video: dynamic /* = false */\n  get() =
definedExternally\n  set(value)
= definedExternally\n  var audio: dynamic /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video:
dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n  val o = js(\"({})\")\n  o[\"video\"] =
video\n  o[\"audio\"] = audio\n  return o\n}\n\npublic external interface ConstrainablePattern {\n  var
onoverconstrained: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value) = definedExternally\n
fun getCapabilities(): Capabilities\n  fun getConstraints(): Constraints\n  fun getSettings(): Settings\n  fun
applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the
JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n */\npublic
external interface DoubleRange {\n  var max:
Double?\n  get() = definedExternally\n  set(value) = definedExternally\n  var min: Double?\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? =
undefined, min: Double? = undefined): DoubleRange {\n  val o = js(\"({})\")\n  o[\"max\"] = max\n  o[\"min\"] =
min\n  return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n  var exact: Double?\n
get() = definedExternally\n  set(value) = definedExternally\n  var ideal: Double?\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double?
= undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined):
ConstrainDoubleRange {\n  val o =
js(\"({})\")\n  o[\"exact\"] = exact\n  o[\"ideal\"] = ideal\n  o[\"max\"] = max\n  o[\"min\"] = min\n  return
o\n}\n\npublic external interface ULongRange {\n  var max: Int?\n  get() = definedExternally\n  set(value)
= definedExternally\n  var min: Int?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined,
min: Int? = undefined): ULongRange {\n  val o = js(\"({})\")\n  o[\"max\"] = max\n  o[\"min\"] = min\n  return
o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n  var exact: Int?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var ideal: Int?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact:
Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n
val o = js(\"({})\")\n  o[\"exact\"] = exact\n  o[\"ideal\"] = ideal\n  o[\"max\"] = max\n  o[\"min\"] = min\n
return o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to
Kotlin\n */\npublic external interface ConstrainBooleanParameters {\n  var exact: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var ideal: Boolean?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact:
Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n  val o = js(\"({})\")\n
o[\"exact\"] = exact\n  o[\"ideal\"] = ideal\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters)
to Kotlin\n */\npublic external interface ConstrainDOMStringParameters {\n  var exact: dynamic\n  get() =

```

```

definedExternally\n    set(value) = definedExternally\n    var ideal: dynamic\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined):
ConstrainDOMStringParameters {\n    val o = js("{}")\n    o["exact"] = exact\n    o["ideal"] = ideal\n    return
o\n}\n\npublic external interface Capabilities\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n    val o
= js("{}")\n    return o\n}\n\npublic external interface Settings\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n    val o =
js("{}")\n    return o\n}\n\npublic external interface ConstraintSet\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n
val o = js("{}")\n    return o\n}\n\npublic external interface Constraints : ConstraintSet {\n    var advanced:
Array<ConstraintSet>?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints {\n    val o = js("{}")\n    o["advanced"] = advanced\n
return o\n}\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface MediaStreamTrackState {\n
    companion object\n}\n\npublic inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState
get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
"ended".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface VideoFacingModeEnum {\n    companion object\n}\n\npublic inline val
VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =
"user".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() =
"environment".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
"left".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.RIGHT:
VideoFacingModeEnum get() = "right".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't
implement this interface!
*\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface VideoResizeModeEnum {\n    companion object\n}\n\npublic inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() =
"none".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic inline val
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = "crop-and-
scale".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface MediaDeviceKind {\n    companion object\n}\n\npublic inline val
MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() =
"audioinput".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
"audiooutput".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic
inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
"videoinput".asDynamic().unsafeCast<MediaDeviceKind>()),"/*\n * Copyright 2010-2021 JetBrains s.r.o. and

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Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *^n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediasource\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes
the JavaScript [MediaSource](https://developer.mozilla.org/en/docs/Web/API/MediaSource) to Kotlin\n *^n\npublic
external open class MediaSource : EventTarget, MediaProvider {\n    open val sourceBuffers: SourceBufferList\n
open val activeSourceBuffers: SourceBufferList\n    open val readyState: ReadyState\n    var duration: Double\n
var onsourceopen: ((Event) -> dynamic)?\n    var onsourceended: ((Event) -> dynamic)?\n    var onsourceclose:
((Event) -> dynamic)?\n    fun addSourceBuffer(type: String): SourceBuffer\n    fun
removeSourceBuffer(sourceBuffer: SourceBuffer)\n    fun endOfStream(error: EndOfStreamError =
definedExternally)\n    fun setLiveSeekableRange(start: Double, end: Double)\n    fun clearLiveSeekableRange()\n\n
companion object {\n    fun isTypeSupported(type: String): Boolean\n    }\n}\n\n/**\n * Exposes the JavaScript
[SourceBuffer](https://developer.mozilla.org/en/docs/Web/API/SourceBuffer) to Kotlin\n *^n\npublic external
abstract class SourceBuffer : EventTarget {\n    open var mode: AppendMode\n    open val updating: Boolean\n
open val buffered: TimeRanges\n    open var timestampOffset: Double\n    open val audioTracks: AudioTrackList\n
open val videoTracks: VideoTrackList\n    open val textTracks: TextTrackList\n    open var appendWindowStart:
Double\n    open var appendWindowEnd:
Double\n    open var onupdatestart: ((Event) -> dynamic)?\n    open var onupdate: ((Event) -> dynamic)?\n    open
var onupdateend: ((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n    open var onabort: ((Event)
-> dynamic)?\n    fun appendBuffer(data: dynamic)\n    fun abort()\n    fun remove(start: Double, end:
Double)\n}\n\n/**\n * Exposes the JavaScript
[SourceBufferList](https://developer.mozilla.org/en/docs/Web/API/SourceBufferList) to Kotlin\n *^n\npublic
external abstract class SourceBufferList : EventTarget {\n    open val length: Int\n    open var onaddsourcebuffer:
((Event) -> dynamic)?\n    open var onremovesourcebuffer: ((Event) ->
dynamic)?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SourceBufferList.get(index:
Int): SourceBuffer? = asDynamic()[index]\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ReadyState {\n    companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState
get() = \"closed\".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.OPEN:
ReadyState get() = \"open\".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val
ReadyState.Companion.ENDED: ReadyState get() = \"ended\".asDynamic().unsafeCast<ReadyState>()\n\n/*
please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface EndOfStreamError {\n    companion object\n}\n\npublic inline val
EndOfStreamError.Companion.NETWORK: EndOfStreamError get() =
\"network\".asDynamic().unsafeCast<EndOfStreamError>()\n\npublic inline val
EndOfStreamError.Companion.DECODE: EndOfStreamError get() =
\"decode\".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface
AppendMode {\n    companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS:
AppendMode get() = \"segments\".asDynamic().unsafeCast<AppendMode>()\n\npublic inline val
AppendMode.Companion.SEQUENCE: AppendMode get() =
\"sequence\".asDynamic().unsafeCast<AppendMode>()\" , /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *^n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport

```

```

org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface
PointerEventInit : MouseEventInit {\n    var pointerId: Int? /* = 0 */\n        get() = definedExternally\n
set(value) = definedExternally\n    var width: Double? /* = 1.0 */\n        get() = definedExternally\n        set(value)
= definedExternally\n    var height: Double? /* = 1.0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var pressure: Float? /* = 0f */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var tangentialPressure: Float? /* = 0f */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var tiltX: Int? /* = 0 */\n        get() = definedExternally\n        set(value) = definedExternally\n
    var tiltY: Int? /* = 0 */\n        get() = definedExternally\n        set(value) = definedExternally\n    var twist: Int? /* =
0 */\n        get() = definedExternally\n        set(value) = definedExternally\n    var pointerType: String? /* = "" */\n
        get() = definedExternally\n        set(value) = definedExternally\n    var isPrimary: Boolean? /* = false */\n
        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress({"INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER"})\n@kotlin.internal.InlineOnly\npublic
inline fun PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f,
tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = "", isPrimary:
Boolean? = false, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean?
= false, composed: Boolean? = false): PointerEventInit {\n    val o = js("{}")\n    o["pointerId"] = pointerId\n
o["width"] = width\n    o["height"] = height\n    o["pressure"] = pressure\n    o["tangentialPressure"] =
tangentialPressure\n    o["tiltX"] = tiltX\n    o["tiltY"] = tiltY\n    o["twist"] = twist\n    o["pointerType"] =
pointerType\n    o["isPrimary"] = isPrimary\n    o["screenX"] = screenX\n    o["screenY"] = screenY\n
o["clientX"] = clientX\n    o["clientY"] = clientY\n    o["button"] = button\n    o["buttons"] = buttons\n
o["relatedTarget"] = relatedTarget\n    o["region"] = region\n    o["ctrlKey"] = ctrlKey\n    o["shiftKey"] =
shiftKey\n    o["altKey"] = altKey\n    o["metaKey"] = metaKey\n    o["modifierAltGraph"] =
modifierAltGraph\n    o["modifierCapsLock"] = modifierCapsLock\n    o["modifierFn"] = modifierFn\n
o["modifierFnLock"] = modifierFnLock\n    o["modifierHyper"] = modifierHyper\n
o["modifierNumLock"] = modifierNumLock\n    o["modifierScrollLock"] = modifierScrollLock\n
o["modifierSuper"] = modifierSuper\n    o["modifierSymbol"] = modifierSymbol\n    o["modifierSymbolLock"]
= modifierSymbolLock\n    o["view"] = view\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n */\n\npublic external open
class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n    open val
pointerId: Int\n    open val width: Double\n    open val height: Double\n    open val pressure: Float\n    open val
tangentialPressure: Float\n    open val tiltX: Int\n    open val tiltY: Int\n    open val twist: Int\n    open val
pointerType: String\n    open val isPrimary: Boolean\n\n    companion object {\n        val NONE: Short\n
        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n
    }\n}\n\n/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n//
NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.css.*\n\n/**\n * Exposes the JavaScript
[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n */\n\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n    open val
dataset: DOMStringMap\n    open val ownerSVGElement: SVGSVGElement?\n    open val

```

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viewportElement: SVGElement?
open var tabIndex: Int
fun focus()
fun blur()
companion object
{
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}
}
public external interface
SVGBoundingBoxOptions {
    var fill: Boolean? /* = true */
    get() = definedExternally
    set(value) = definedExternally
    var stroke: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var markers: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var clipped: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun SVGBoundingBoxOptions(fill: Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {
    val o = js("{}")
    o["fill"] = fill
    o["stroke"] = stroke
    o["markers"] = markers
    o["clipped"] = clipped
    return o
}
/** Exposes the JavaScript [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin
 */
public external abstract class SVGGraphicsElement : SVGElement, SVGTests {
    open val transform: SVGAnimatedTransformList
    fun getBBox(options: SVGBoundingBoxOptions = definedExternally): DOMRect
    fun getCTM(): DOMMatrix?
    fun getScreenCTM(): DOMMatrix?
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
/** Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin
 */
public external abstract class SVGGeometryElement : SVGGraphicsElement {
    open val pathLength: SVGAnimatedNumber
    fun isPointInFill(point: DOMPoint): Boolean
    fun isPointInStroke(point: DOMPoint): Boolean
    fun getTotalLength(): Float
    fun getPointAtLength(distance: Float): DOMPoint
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}
}
/** Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin
 */
public external abstract class SVGNumber {
    open var value: Float
}
/** Exposes the JavaScript

```

```

[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n *\npublic external abstract
class SVGLength {\n  open val unitType: Short\n  open var value: Float\n  open var valueInSpecifiedUnits:
Float\n  open var valueAsString: String\n  fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n  fun convertToSpecifiedUnits(unitType: Short)\n\n  companion object {\n    val
SVG_LENGTHTYPE_UNKNOWN: Short\n    val SVG_LENGTHTYPE_NUMBER: Short\n    val
SVG_LENGTHTYPE_PERCENTAGE: Short\n    val SVG_LENGTHTYPE_EMS: Short\n    val
SVG_LENGTHTYPE_EXS: Short\n    val SVG_LENGTHTYPE_PX: Short\n    val
SVG_LENGTHTYPE_CM: Short\n    val SVG_LENGTHTYPE_MM: Short\n    val
SVG_LENGTHTYPE_IN: Short\n    val SVG_LENGTHTYPE_PT: Short\n    val SVG_LENGTHTYPE_PC:
Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n *\npublic external abstract
class SVGAngle {\n  open val unitType: Short\n  open var value: Float\n  open var valueInSpecifiedUnits:
Float\n  open var valueAsString: String\n  fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n  fun convertToSpecifiedUnits(unitType: Short)\n\n  companion object {\n    val
SVG_ANGLETYPE_UNKNOWN: Short\n    val SVG_ANGLETYPE_UNSPECIFIED: Short\n    val
SVG_ANGLETYPE_DEG: Short\n    val SVG_ANGLETYPE_RAD: Short\n    val
SVG_ANGLETYPE_GRAD: Short\n  }\n}\n\npublic external abstract class SVGNameList {\n  open val length:
Int\n  open val numberOfItems: Int\n  fun clear()\n  fun initialize(newItem:
dynamic): dynamic\n  fun insertItemBefore(newItem: dynamic, index: Int): dynamic\n  fun replaceItem(newItem:
dynamic, index: Int): dynamic\n  fun removeItem(index: Int): dynamic\n  fun appendItem(newItem: dynamic):
dynamic\n  fun getItem(index: Int): dynamic\n}\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index: Int):
dynamic = asDynamic()[index]\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int,
newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n *\npublic external
abstract class SVGNumberList {\n  open val length: Int\n  open val numberOfItems: Int\n  fun clear()\n  fun
initialize(newItem: SVGNumber): SVGNumber\n  fun insertItemBefore(newItem: SVGNumber, index:
Int): SVGNumber\n  fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n  fun removeItem(index:
Int): SVGNumber\n  fun appendItem(newItem: SVGNumber): SVGNumber\n  fun getItem(index: Int):
SVGNumber\n}\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index:
Int): SVGNumber? = asDynamic()[index]\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index:
Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n *\npublic external
abstract class SVGLengthList {\n  open val length: Int\n  open val numberOfItems: Int\n  fun clear()\n  fun
initialize(newItem: SVGLength): SVGLength\n  fun insertItemBefore(newItem: SVGLength, index: Int):
SVGLength\n  fun replaceItem(newItem: SVGLength,
index: Int): SVGLength\n  fun removeItem(index: Int): SVGLength\n  fun appendItem(newItem: SVGLength):
SVGLength\n  fun getItem(index: Int): SVGLength\n}\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index:
Int): SVGLength? = asDynamic()[index]\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int,
newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n
*\npublic external abstract class SVGAnimatedBoolean {\n  open var baseVal: Boolean\n  open val animVal:
Boolean\n}\n\n/**\n * Exposes the JavaScript

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[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\n \*\\npublic external abstract class SVGAnimatedEnumeration  
 {\\n open var baseVal: Short\\n open val animVal: Short\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n \*\\npublic external abstract class SVGAnimatedInteger {\\n open var baseVal: Int\\n open val animVal: Int\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n \*\\npublic external abstract class SVGAnimatedNumber {\\n open var baseVal: Float\\n open val animVal: Float\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n \*\\npublic external abstract class SVGAnimatedLength {\\n open val baseVal: SVGLength\\n open val animVal: SVGLength\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n \*\\npublic external abstract class SVGAnimatedAngle {\\n open val baseVal: SVGAngle\\n open val animVal: SVGAngle\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n \*\\npublic external abstract class SVGAnimatedString {\\n open var baseVal: String\\n open val animVal: String\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin\n \*\\npublic external abstract class SVGAnimatedRect {\\n open val baseVal: DOMRect\\n open val animVal: DOMRectReadOnly\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n \*\\npublic external abstract class SVGAnimatedNumberList {\\n open val baseVal: SVGNumberList\\n open val animVal: SVGNumberList\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n \*\\npublic external abstract class SVGAnimatedLengthList {\\n open val baseVal: SVGLengthList\\n open val animVal: SVGLengthList\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n \*\\npublic external abstract class SVGStringList {\\n open val length: Int\\n open val numberOfItems: Int\\n fun clear()\\n fun initialize(newItem: String): String\\n fun insertItemBefore(newItem: String, index: Int): String\\n fun replaceItem(newItem: String, index: Int): String\\n fun removeItem(index: Int): String\\n fun appendItem(newItem: String): String\\n fun getItem(index: Int): String\\n}\\n\\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\\n@kotlin.internal.InlineOnly\\npublic inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\\n\\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\\n@kotlin.internal.InlineOnly\\npublic inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n \*\\n@Suppress(\"NESTED\_CLASS\_IN\_EXTERNAL\_INTERFACE\")\\npublic external interface SVGUnitTypes {\\n companion object {\\n val SVG\_UNIT\_TYPE\_UNKNOWN: Short\\n val SVG\_UNIT\_TYPE\_USERSPACEONUSE: Short\\n val SVG\_UNIT\_TYPE\_OBJECTBOUNDINGBOX: Short\\n }\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGTTests](https://developer.mozilla.org/en/docs/Web/API/SVGTTests) to Kotlin\n \*\\npublic external interface SVGTTests {\\n val requiredExtensions: SVGStringList\\n val systemLanguage: SVGStringList\\n}\\n\\npublic external interface SVGFitToViewBox {\\n val viewBox: SVGAnimatedRect\\n val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\\n}\\n\\n\*\*\\n \* Exposes the JavaScript

[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n

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*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface SVGZoomAndPan {\n  var zoomAndPan: Short\n\n  companion object {\n    val
SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val
SVG_ZOOMANDPAN_MAGNIFY: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n
*\npublic
external interface SVGURIReference {\n  val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript
[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n
*\npublic
external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan,
WindowEventHandlers {\n  open val x: SVGAnimatedLength\n  open val y: SVGAnimatedLength\n  open val
width: SVGAnimatedLength\n  open val height: SVGAnimatedLength\n  open var currentScale: Float\n  open
val currentTranslate: DOMPointReadOnly\n  fun getIntersectionList(rect: DOMRectReadOnly, referenceElement:
SVGElement?): NodeList\n
  fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n  fun
checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n  fun checkEnclosure(element:
SVGElement, rect: DOMRectReadOnly): Boolean\n  fun deselectAll()\n  fun createSVGNumber():
SVGNumber\n  fun createSVGLength(): SVGLength\n  fun createSVGAngle(): SVGAngle\n  fun
createSVGPoint(): DOMPoint\n  fun createSVGMatrix(): DOMMatrix\n  fun createSVGRect(): DOMRect\n
fun createSVGTransform(): SVGTransform\n  fun createSVGTransformFromMatrix(matrix:
DOMMatrixReadOnly): SVGTransform\n  fun getElementById(elementId: String): Element\n  fun
suspendRedraw(maxWaitMilliseconds: Int): Int\n  fun unsuspendRedraw(suspendHandleID: Int)\n  fun
unsuspendRedrawAll()\n  fun forceRedraw()\n\n  companion object {\n    val
SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val
SVG_ZOOMANDPAN_MAGNIFY: Short\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n
*\npublic external
abstract class SVGGElement : SVGGraphicsElement {\n  companion object {\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external abstract class
SVGUnknownElement : SVGGraphicsElement {\n  companion object {\n    val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val

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ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n */\npublic
external abstract class SVGDefsElement : SVGGraphicsElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n
        val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n */\npublic
external abstract class SVGDescElement : SVGElement {\n    companion object {\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE:
Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to
Kotlin\n */\npublic external abstract class SVGMetadataElement : SVGElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE:
Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val
DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n
*/\npublic external abstract class SVGTitleElement : SVGElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n */\npublic
external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n */\npublic external
abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n    open val instanceRoot: SVGElement?\n    open val animatedInstanceRoot:
SVGElement?\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\npublic external open class
SVGUseElementShadowRoot : ShadowRoot {\n    companion object {\n        val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n
        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\npublic external interface
SVGElementInstance {\n    val correspondingElement: SVGElement?\n    get() = definedExternally\n    val
correspondingUseElement: SVGUseElement?\n    get() = definedExternally\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n    open val sourceAnimation: dynamic\n}\n\n/**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n */\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val

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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
GetSVGDocument {\n    fun getSVGDocument(): Document\n}\n\n/**\n * Exposes
the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n
*/\n\npublic external abstract class SVGStyleElement : SVGElement, LinkStyle {\n    open var type: String\n    open
var media: String\n    open var title: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n
*/\n\npublic external
abstract class SVGTransform {\n    open val type: Short\n    open val matrix: DOMMatrix\n    open val angle:
Float\n    fun setMatrix(matrix: DOMMatrixReadOnly)\n    fun setTranslate(tx: Float, ty: Float)\n    fun setScale(sx:
Float, sy: Float)\n    fun setRotate(angle: Float, cx: Float, cy: Float)\n    fun setSkewX(angle: Float)\n    fun
setSkewY(angle: Float)\n\n    companion object {\n        val SVG_TRANSFORM_UNKNOWN: Short\n        val
SVG_TRANSFORM_MATRIX: Short\n        val SVG_TRANSFORM_TRANSLATE: Short\n        val
SVG_TRANSFORM_SCALE: Short\n        val SVG_TRANSFORM_ROTATE: Short\n        val
SVG_TRANSFORM_SKEWX: Short\n        val SVG_TRANSFORM_SKEWY: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList)
to Kotlin\n
*/\n\npublic external abstract class SVGTransformList {\n    open val length: Int\n    open val
numberOfItems: Int\n    fun clear()\n    fun initialize(newItem: SVGTransform): SVGTransform\n    fun
insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform\n    fun replaceItem(newItem:
SVGTransform, index: Int): SVGTransform\n    fun removeItem(index: Int): SVGTransform\n    fun
appendItem(newItem: SVGTransform): SVGTransform\n    fun createSVGTransformFromMatrix(matrix:
DOMMatrixReadOnly): SVGTransform\n    fun consolidate(): SVGTransform?\n    fun getItem(index: Int):
SVGTransform\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGTransformList.get(index:
Int): SVGTransform? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGTransformList.set(index:
Int, newItem: SVGTransform) { asDynamic()[index] = newItem
}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n
*/\n\npublic external abstract class SVGAnimatedTransformList {\n    open val baseVal:
SVGTransformList\n    open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n
*/\n\npublic external abstract class SVGPreserveAspectRatio {\n    open var align: Short\n    open var meetOrSlice:
Short\n\n    companion object {\n        val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n        val
SVG_PRESERVEASPECTRATIO_NONE: Short\n        val SVG_PRESERVEASPECTRATIO_XMIDYMIN:
Short\n        val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n        val

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SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n    val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n    val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n    val
SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n
    val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n    val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n    val
SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n    val SVG_MEETORSLICE_UNKNOWN: Short\n
    val SVG_MEETORSLICE_MEET: Short\n    val SVG_MEETORSLICE_SLICE: Short\n    }\n}\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio) to Kotlin\n *\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n    open val baseVal:
SVGPreserveAspectRatio\n    open val animVal: SVGPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n *\npublic
external abstract class SVGPathElement : SVGGeometryElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n *\npublic
external abstract class SVGRectElement : SVGGeometryElement {\n    open val x: SVGAnimatedLength\n    open
val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val height: SVGAnimatedLength\n
    open val rx: SVGAnimatedLength\n    open val ry:
SVGAnimatedLength\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\n *\npublic
external abstract class SVGCircleElement : SVGGeometryElement
{\n    open val cx: SVGAnimatedLength\n    open val cy: SVGAnimatedLength\n    open val r:
SVGAnimatedLength\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement)
to Kotlin\n */\npublic external abstract class SVGEllipseElement : SVGGeometryElement {\n    open val cx:
SVGAnimatedLength\n    open val cy: SVGAnimatedLength\n    open val rx: SVGAnimatedLength\n    open val ry:
SVGAnimatedLength\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin\n */\npublic
external abstract class SVGLineElement : SVGGeometryElement {\n    open val x1: SVGAnimatedLength\n    open
val y1: SVGAnimatedLength\n    open val x2: SVGAnimatedLength\n    open val y2: SVGAnimatedLength\n\n
    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\n
*/\npublic external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n
*/\npublic external interface SVGAnimatedPoints {\n    val points: SVGPointList\n    val animatedPoints:
SVGPointList\n}\n\npublic external abstract class SVGPointList {\n    open val length: Int\n    open val
numberOfItems: Int\n    fun clear()\n    fun initialize(newItem: DOMPoint): DOMPoint\n    fun
insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\n    fun replaceItem(newItem: DOMPoint, index:
Int): DOMPoint\n    fun removeItem(index: Int): DOMPoint\n    fun appendItem(newItem: DOMPoint):
DOMPoint\n    fun getItem(index: Int): DOMPoint\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.get(index: Int):
DOMPoint?

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= asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGPointList.set(index: Int,
newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n
*\n\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n
    val ELEMENT_NODE: Short\n
    val ATTRIBUTE_NODE: Short\n
    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n
    val ENTITY_REFERENCE_NODE: Short\n
    val ENTITY_NODE: Short\n
    val PROCESSING_INSTRUCTION_NODE: Short\n
    val COMMENT_NODE: Short\n
    val DOCUMENT_NODE: Short\n
    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n
    val NOTATION_NODE: Short\n
    val DOCUMENT_POSITION_DISCONNECTED: Short\n
    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n/**\n * Exposes the
JavaScript [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to
Kotlin\n
*\n\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n
    val ELEMENT_NODE: Short\n
    val ATTRIBUTE_NODE: Short\n
    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n
    val ENTITY_REFERENCE_NODE: Short\n
    val ENTITY_NODE: Short\n
    val PROCESSING_INSTRUCTION_NODE: Short\n
    val COMMENT_NODE: Short\n
    val DOCUMENT_NODE: Short\n
    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n
    val NOTATION_NODE: Short\n
    val DOCUMENT_POSITION_DISCONNECTED: Short\n
    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n/**\n * Exposes the
JavaScript [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to
Kotlin\n
*\n\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n
open val textLength: SVGAnimatedLength\n
open val lengthAdjust: SVGAnimatedEnumeration\n
fun getNumberOfChars(): Int\n
fun getComputedTextLength(): Float\n
fun getSubStringLength(charnum: Int, nchars: Int): Float\n
fun getStartPositionOfChar(charnum: Int): DOMPoint\n
fun getEndPositionOfChar(charnum: Int): DOMPoint\n
fun getExtentOfChar(charnum: Int): DOMRect\n
fun getRotationOfChar(charnum: Int): Float\n
fun getCharNumAtPosition(point: DOMPoint): Int\n
fun selectSubString(charnum: Int, nchars: Int)\n\n
companion object {\n
    val LENGTHADJUST_UNKNOWN: Short\n
    val LENGTHADJUST_SPACING: Short\n
    val LENGTHADJUST_SPACINGANDGLYPHS: Short\n
    val ELEMENT_NODE: Short\n
    val ATTRIBUTE_NODE: Short\n
    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n
    val ENTITY_REFERENCE_NODE: Short\n
    val ENTITY_NODE: Short\n
    val PROCESSING_INSTRUCTION_NODE: Short\n
    val COMMENT_NODE: Short\n
    val DOCUMENT_NODE: Short\n
    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n
    val NOTATION_NODE: Short\n
    val DOCUMENT_POSITION_DISCONNECTED: Short\n
    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n/**\n * Exposes the JavaScript
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement)
to Kotlin\n
*\n\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n
open val x: SVGAnimatedLengthList\n
open val y: SVGAnimatedLengthList\n
open val dx: SVGAnimatedLengthList\n
open val dy: SVGAnimatedLengthList\n
open val rotate:

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SVGAnimatedNumberList companion object {
    val LENGTHADJUST_UNKNOWN: Short
    val LENGTHADJUST_SPACING: Short
    val LENGTHADJUST_SPACINGANDGLYPHS: Short
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/** Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin */
public external abstract class SVGTextElement : SVGTextPositioningElement {
    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }

    /** Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin */
    public external abstract class SVGTSpanElement : SVGTextPositioningElement {
        companion object {
            val LENGTHADJUST_UNKNOWN: Short
            val LENGTHADJUST_SPACING: Short
            val LENGTHADJUST_SPACINGANDGLYPHS: Short
            val ELEMENT_NODE: Short
            val ATTRIBUTE_NODE: Short
            val TEXT_NODE: Short
            val CDATA_SECTION_NODE: Short
            val ENTITY_REFERENCE_NODE: Short
            val ENTITY_NODE: Short
            val PROCESSING_INSTRUCTION_NODE: Short
            val COMMENT_NODE: Short
            val DOCUMENT_NODE: Short
            val DOCUMENT_TYPE_NODE: Short
            val DOCUMENT_FRAGMENT_NODE: Short
            val NOTATION_NODE: Short
            val DOCUMENT_POSITION_DISCONNECTED: Short
            val DOCUMENT_POSITION_PRECEDING: Short
            val DOCUMENT_POSITION_FOLLOWING: Short
            val DOCUMENT_POSITION_CONTAINS: Short
            val DOCUMENT_POSITION_CONTAINED_BY: Short
            val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
        }

        /** Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin */
        public external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {
            open val startOffset: SVGAnimatedLength
            open val method: SVGAnimatedEnumeration
            open val spacing: SVGAnimatedEnumeration

            companion object {
                val TEXTPATH_METHODTYPE_UNKNOWN: Short
                val TEXTPATH_METHODTYPE_ALIGN: Short
                val TEXTPATH_METHODTYPE_STRETCH: Short
                val TEXTPATH_SPACINGTYPE_UNKNOWN: Short
                val TEXTPATH_SPACINGTYPE_AUTO: Short
                val TEXTPATH_SPACINGTYPE_EXACT: Short
                val LENGTHADJUST_UNKNOWN: Short
                val LENGTHADJUST_SPACING: Short
                val LENGTHADJUST_SPACINGANDGLYPHS: Short
                val ELEMENT_NODE: Short
                val ATTRIBUTE_NODE: Short
                val TEXT_NODE: Short
                val CDATA_SECTION_NODE: Short
            }
        }
    }
}

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ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n
*/\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,
HTMLorSVGImageElement {\n    open val x: SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open
val width: SVGAnimatedLength\n    open val height: SVGAnimatedLength\n    open val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n    open var crossOrigin: String?\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to
Kotlin\n */\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE:
Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {\n    open val refX: SVGAnimatedLength\n
    open val refY: SVGAnimatedLength\n    open val markerUnits: SVGAnimatedEnumeration\n    open val
markerWidth: SVGAnimatedLength\n    open val markerHeight: SVGAnimatedLength\n    open val orientType:
SVGAnimatedEnumeration\n    open val orientAngle: SVGAnimatedAngle\n    open var orient: String\n    fun
setOrientToAuto()\n    fun setOrientToAngle(angle:
SVGAngle)\n\n    companion object {\n        val SVG_MARKERUNITS_UNKNOWN: Short\n        val
SVG_MARKERUNITS_USERSPACEONUSE: Short\n        val SVG_MARKERUNITS_STROKEWIDTH:
Short\n        val SVG_MARKER_ORIENT_UNKNOWN: Short\n        val SVG_MARKER_ORIENT_AUTO:
Short\n        val SVG_MARKER_ORIENT_ANGLE: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val

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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to
Kotlin\n */\npublic external abstract class SVGSolidcolorElement : SVGElement {\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n
*/\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n
open val gradientUnits: SVGAnimatedEnumeration\n    open val gradientTransform: SVGAnimatedTransformList\n
open val spreadMethod: SVGAnimatedEnumeration\n\n    companion object {\n        val
SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD: Short\n        val
SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT: Short\n        val
SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to
Kotlin\n */\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n    open val x1:
SVGAnimatedLength\n    open val y1: SVGAnimatedLength\n    open val x2: SVGAnimatedLength\n    open val
y2: SVGAnimatedLength\n\n    companion object {\n        val SVG_SPREADMETHOD_UNKNOWN: Short\n
        val SVG_SPREADMETHOD_PAD: Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n        val
SVG_SPREADMETHOD_REPEAT: Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
    Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to
Kotlin\n */\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n    open val cx:
SVGAnimatedLength\n    open val cy: SVGAnimatedLength\n    open val r: SVGAnimatedLength\n    open val fx:
SVGAnimatedLength\n    open val fy: SVGAnimatedLength\n    open val fr: SVGAnimatedLength\n\n    companion
object {\n        val SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD:
Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT:
Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE:
Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n
        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMeshGradientElement : SVGGradientElement {\n    companion object {\n        val
SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD: Short\n        val
SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT: Short\n        val
SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMeshrowElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n

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    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin \n * \n public
external abstract class SVGStopElement : SVGElement { \n    open val offset: SVGAnimatedNumber \n \n
companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        } \n} \n \n /** \n * Exposes the JavaScript
[SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin \n * \n public
external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference,
SVGUnitTypes { \n    open val patternUnits: SVGAnimatedEnumeration \n    open val patternContentUnits:
SVGAnimatedEnumeration \n    open val patternTransform: SVGAnimatedTransformList \n    open val x:
SVGAnimatedLength \n    open val y: SVGAnimatedLength \n    open val width: SVGAnimatedLength \n
    open val height: SVGAnimatedLength \n \n    companion object { \n        val SVG_UNIT_TYPE_UNKNOWN:
Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n public external abstract class
SVGHatchElement : SVGElement { \n    companion object { \n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n public external abstract class
SVGHatchpathElement : SVGElement { \n    companion object { \n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE:

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Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin \n * \n public
external abstract class SVGCursorElement : SVGElement, SVGURIReference { \n    open val x:
SVGAnimatedLength \n    open val y: SVGAnimatedLength \n \n    companion object { \n        val
ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        } \n} \n \n /** \n * Exposes the JavaScript
[SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin \n * \n public
external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement { \n
    open var type: String \n
        open var crossOrigin: String? \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        } \n} \n \n /** \n * Exposes the JavaScript
[SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin \n * \n public external
abstract class SVGAElement : SVGGraphicsElement,
    SVGURIReference { \n    open val target: SVGAnimatedString \n    open val download: SVGAnimatedString \n
    open val rel: SVGAnimatedString \n    open val relList: SVGAnimatedString \n    open val hreflang:
SVGAnimatedString \n    open val type: SVGAnimatedString \n \n    companion object { \n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:

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Short\n } \n\n**\n * Exposes the JavaScript
[SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n *\npublic
external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n companion
object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE:
Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING:
Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val
DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n}"/*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport
org.w3c.xhr.*\n\n**\n * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to
Kotlin\n *\npublic external open class Blob(blobParts: Array<dynamic> = definedExternally, options:
BlobPropertyBag = definedExternally) : MediaProvider, ImageBitmapSource {\n open val size: Number\n open
val type: String\n open val isClosed: Boolean\n
fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally):
Blob\n fun close()\n}\n\npublic external interface BlobPropertyBag {\n var type: String? /* = \"\" */\n get()
= definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun BlobPropertyBag(type: String? = \"\"):
BlobPropertyBag {\n val o = js(\"({})\")\n o[\"type\"] = type\n return o\n}\n\n**\n * Exposes the JavaScript
[File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n *\npublic external open class File(fileBits:
Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\n open val name:
String\n open val lastModified: Int\n}\n\npublic external interface FilePropertyBag : BlobPropertyBag {\n var
lastModified: Int?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = \"\"): FilePropertyBag {\n val o = js(\"({})\")\n o[\"lastModified\"] = lastModified\n
o[\"type\"] = type\n return o\n}\n\n**\n * Exposes the JavaScript
[FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\n *\npublic external abstract class
FileList : ItemArrayLike<File> {\n override fun item(index: Int):
File?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun FileList.get(index: Int): File?
= asDynamic()[index]\n\n**\n * Exposes the JavaScript
[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n *\npublic external open class
FileReader : EventTarget {\n open val readyState: Short\n open val result: dynamic\n open val error:
dynamic\n var onloadstart:
((ProgressEvent) -> dynamic)?\n var onprogress: ((ProgressEvent) -> dynamic)?\n var onload: ((Event) ->
dynamic)?\n var onabort: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onloadend:
((Event) -> dynamic)?\n fun readAsArrayBuffer(blob: Blob)\n fun readAsBinaryString(blob: Blob)\n fun
readAsText(blob: Blob, label: String = definedExternally)\n fun readAsDataURL(blob: Blob)\n fun abort()\n}

```

```

companion object {
    val EMPTY: Short
    val LOADING: Short
    val DONE: Short
}

/** Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin
 */
@public external open class FileReaderSync {
    fun readAsArrayBuffer(blob: Blob): ArrayBuffer
    fun readAsBinaryString(blob: Blob): String
    fun readAsText(blob: Blob, label: String = definedExternally): String
    fun readAsDataURL(blob: Blob): String
}

/** Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
@n// See github.com/kotlin/dukat for details
@npackage org.w3c.notifications
@nimport kotlin.js.*
@nimport org.khronos.webgl.*
@nimport org.w3c.dom.events.*
@nimport org.w3c.workers.*

/** Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin
 */
@public external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {
    var onclick: ((MouseEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    open val title: String
    open val dir: NotificationDirection
    open val lang: String
    open val body: String
    open val tag: String
    open val image: String
    open val icon: String
    open val badge: String
    open val sound: String
    open val vibrate: Array<out Int>
    open val timestamp: Number
    open val renotify: Boolean
    open val silent: Boolean
    open val noscreen: Boolean
    open val requireInteraction: Boolean
    open val sticky: Boolean
    open val data: Any?
    open val actions: Array<out NotificationAction>
    fun close()
    companion object {
        val permission: NotificationPermission
        val maxActions: Int
        fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>
    }
}

@public external interface NotificationOptions {
    var dir: NotificationDirection? /* = NotificationDirection.AUTO */
    get() = definedExternally
    set(value) = definedExternally
    var lang: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var body: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var tag: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var image: String?
    get() = definedExternally
    set(value) = definedExternally
    var icon: String?
    get() = definedExternally
    set(value) = definedExternally
    var badge: String?
    get() = definedExternally
    set(value) = definedExternally
    var sound: String?
    get() = definedExternally
    set(value) = definedExternally
    var vibrate: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var timestamp: Number?
    get() = definedExternally
    set(value) = definedExternally
    var renotify: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var silent: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var noscreen: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var requireInteraction: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var sticky: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
    var data: Any? /* = null */
    get() = definedExternally
    set(value) = definedExternally
    var actions: Array<NotificationAction>? /* = arrayOf() */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
@public inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = "", body: String? = "", tag: String? = "", image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined, vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? = false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {
    val o = js("{}")
    o["dir"] = dir
    o["lang"] = lang
    o["body"] = body
    o["tag"] = tag
    o["image"] = image
    o["icon"] = icon
    o["badge"] = badge
    o["sound"] = sound
    o["vibrate"] = vibrate
    o["timestamp"] = timestamp
    o["renotify"] = renotify
    o["silent"] = silent
    o["noscreen"] = noscreen
}

```



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o["requireInteraction"] = requireInteraction\n  o["sticky"] = sticky\n  o["data"] = data\n  o["actions"] =
actions\n  return o\n}\n\npublic external interface NotificationAction {\n  var action: String?\n  var title:
String?\n  var icon: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic
inline fun NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction {\n  val
o = js("{}")\n  o["action"] = action\n  o["title"] = title\n  o["icon"] = icon\n  return o\n}\n\npublic
external interface GetNotificationOptions {\n  var tag: String? /* = "" */\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? =
""): GetNotificationOptions {\n  val o = js("{}")\n  o["tag"] = tag\n  return o\n}\n\n/**\n * Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n
*/\n\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent {\n  open val notification: Notification\n  open val action: String\n\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n
var notification: Notification?\n  var action: String? /* = "" */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification:
Notification?, action: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): NotificationEventInit {\n  val o = js("{}")\n  o["notification"] = notification\n  o["action"] =
action\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o\n}\n\n/* please, don't implement this interface!\n
*/\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic
external interface NotificationPermission {\n  companion object\n}\n\npublic inline val
NotificationPermission.Companion.DEFAULT: NotificationPermission get() =
"default".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
"denied".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.GRANTED: NotificationPermission get() =
"granted".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface!\n
*/\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface NotificationDirection {\n  companion object\n}\n\npublic inline val
NotificationDirection.Companion.AUTO: NotificationDirection get() =
"auto".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.LTR: NotificationDirection get() =
"ltr".asDynamic().unsafeCast<NotificationDirection>()\n\npublic
inline val NotificationDirection.Companion.RTL: NotificationDirection get() =
"rtl".asDynamic().unsafeCast<NotificationDirection>() /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.fetch.*\nimport
org.w3c.notifications.*\n\n/**\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n
*/\n\npublic external
abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n  open val scriptURL: String\n  open val state:
ServiceWorkerState\n

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open var onstatechange: ((Event) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n\n * public external abstract class ServiceWorkerRegistration : EventTarget {\n open val installing:
ServiceWorker?\n open val waiting: ServiceWorker?\n open val active: ServiceWorker?\n open val scope:
String\n open var onupdatefound: ((Event) -> dynamic)?\n open val APISpace: dynamic\n fun update():
Promise<Unit>\n fun unregister(): Promise<Boolean>\n fun showNotification(title: String, options:
NotificationOptions = definedExternally): Promise<Unit>\n fun getNotifications(filter: GetNotificationOptions =
definedExternally): Promise<Array<Notification>>\n fun methodName(): Promise<dynamic>\n}\n\n/**\n *
Exposes the JavaScript
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer)
to Kotlin\n\n * public external abstract class ServiceWorkerContainer : EventTarget {\n open val controller:
ServiceWorker?\n open val ready: Promise<ServiceWorkerRegistration>\n open var oncontrollerchange:
((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun register(scriptURL: String,
options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>\n fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n fun startMessages()\n}\n\n public external interface
RegistrationOptions {\n var scope: String?\n get() = definedExternally\n set(value) = definedExternally\n
var type: WorkerType? /* = WorkerType.CLASSIC */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n public
inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC):
RegistrationOptions {\n val o = js("{}")\n o["scope"] = scope\n o["type"] = type\n return o\n}\n\n /**\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n\n * public external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n open val data: Any?\n open val origin:
String\n open val lastEventId: String\n open val source: UnionMessagePortOrServiceWorker?\n open val
ports: Array<out MessagePort>?\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\n public external interface ServiceWorkerMessageEventInit : EventInit {\n var data: Any?\n get()
= definedExternally\n set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n
set(value) = definedExternally\n var lastEventId: String?\n get() = definedExternally\n set(value) =
definedExternally\n var source: UnionMessagePortOrServiceWorker?\n get() = definedExternally\n
set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() = definedExternally\n set(value)
= definedExternally\n}\n\n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n public inline fun ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n val o =
js("{}")\n o["data"] = data\n
o["origin"] = origin\n o["lastEventId"] = lastEventId\n o["source"] = source\n o["ports"] = ports\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n /**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n\n * public external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n open val clients:
Clients\n open val registration: ServiceWorkerRegistration\n open var oninstall: ((Event) -> dynamic)?\n open
var onactivate: ((Event) -> dynamic)?\n open var onfetch: ((FetchEvent) -> dynamic)?\n open var

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onforeignfetch: ((Event) -> dynamic)?\n  open var onmessage: ((MessageEvent) -> dynamic)?\n  open var
onnotificationclick: ((NotificationEvent) -> dynamic)?\n  open var onnotificationclose: ((NotificationEvent) ->
dynamic)?\n  open var onfunctionalevent: ((Event) -> dynamic)?\n  fun skipWaiting():
  Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n */\npublic external abstract class Client :
UnionClientOrMessagePortOrServiceWorker {\n  open val url: String\n  open val frameType: FrameType\n
open val id: String\n  fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n
* Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to
Kotlin\n */\npublic external abstract class WindowClient : Client {\n  open val visibilityState: dynamic\n  open
val focused: Boolean\n  fun focus(): Promise<WindowClient>\n  fun navigate(url: String):
Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n */\npublic external abstract class
Clients {\n  fun get(id: String): Promise<Any?>\n  fun matchAll(options: ClientQueryOptions =
definedExternally):
  Promise<Array<Client>>\n  fun openWindow(url: String): Promise<WindowClient?>\n  fun claim():
Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n  var includeUncontrolled: Boolean? /* =
false */\n  get() = definedExternally\n  set(value) = definedExternally\n  var type: ClientType? /* =
ClientType.WINDOW */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW):
ClientQueryOptions {\n  val o = js("{}")\n  o["includeUncontrolled"] = includeUncontrolled\n  o["type"] =
type\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n */\npublic external
open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit =
definedExternally) : Event {\n  fun waitUntil(f: Promise<Any?>)\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface ExtendableEventInit :
EventInit\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableEventInit(bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n  val o =
js("{}")\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n */\npublic external open
class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n  fun
registerForeignFetch(options: ForeignFetchOptions)\n\n  companion object
{\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface ForeignFetchOptions {\n  var scopes:
Array<String>?\n  var origins: Array<String>?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchOptions(scopes:
Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n  val o = js("{}")\n  o["scopes"] =
scopes\n  o["origins"] = origins\n  return o\n}\n\n/**\n * Exposes the JavaScript
[FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n */\npublic external open class
FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n  open val request: Request\n  open
val clientId: String?\n  open val isReload: Boolean\n  fun respondWith(r: Promise<Response>)\n\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE:
Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
FetchEventInit : ExtendableEventInit {\n  var request: Request?\n  var clientId: String? /* = null */\n  get() =

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definedExternally\n    set(value) = definedExternally\n    var isReload: Boolean? /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FetchEventInit(request: Request?,
clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): FetchEventInit {\n    val o = js(\"({})\")\n    o[\"request\"] = request\n    o[\"clientId\"]
= clientId\n    o[\"isReload\"] = isReload\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n    return o\n}\n\npublic external open class ForeignFetchEvent(type:
String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open val
origin: String\n    fun respondWith(r: Promise<ForeignFetchResponse>)\n\n    companion object {\n        val NONE:
Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE:
Short\n    }\n}\n\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\n    var request:
Request?\n    var origin: String? /* = \"null\" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchEventInit(request:
Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): ForeignFetchEventInit {\n    val o = js(\"({})\")\n    o[\"request\"] = request\n    o[\"origin\"] = origin\n
o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n    return o\n}\n\npublic external interface ForeignFetchResponse {\n    var
response: Response?\n    var origin: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
var headers: Array<String>?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response:
Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n    val o =
js(\"({})\")\n    o[\"response\"] = response\n    o[\"origin\"] = origin\n    o[\"headers\"] = headers\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n
*/\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit =
definedExternally) : ExtendableEvent
{\n    open val data: Any?\n    open val origin: String\n    open val lastEventId: String\n    open val source:
UnionClientOrMessagePortOrServiceWorker?\n    open val ports: Array<out MessagePort>?\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ExtendableMessageEventInit :
ExtendableEventInit {\n    var data: Any?\n    get() = definedExternally\n    set(value) = definedExternally\n
var origin: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var lastEventId:
String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var source:
UnionClientOrMessagePortOrServiceWorker?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var ports: Array<MessagePort>?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\n
val o = js(\"({})\")\n    o[\"data\"] = data\n    o[\"origin\"] = origin\n    o[\"lastEventId\"] = lastEventId\n
o[\"source\"] = source\n    o[\"ports\"] = ports\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n
*/\npublic external abstract class Cache
{\n    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n    fun
matchAll(request: dynamic

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= definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>\n fun
add(request: dynamic): Promise<Unit>\n fun addAll(requests: Array<dynamic>): Promise<Unit>\n fun
put(request: dynamic, response: Response): Promise<Unit>\n fun delete(request: dynamic, options:
CacheQueryOptions = definedExternally): Promise<Boolean>\n fun keys(request: dynamic = definedExternally,
options: CacheQueryOptions = definedExternally): Promise<Array<Request>>\n}\n\npublic external interface
CacheQueryOptions {\n var ignoreSearch: Boolean? /* = false */\n get() = definedExternally\n set(value)
= definedExternally\n var ignoreMethod: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var ignoreVary: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var cacheName: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CacheQueryOptions(ignoreSearch:
Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined):
CacheQueryOptions {\n val o = js(\"({})\")\n o[\"ignoreSearch\"] = ignoreSearch\n o[\"ignoreMethod\"] =
ignoreMethod\n o[\"ignoreVary\"] = ignoreVary\n o[\"cacheName\"] = cacheName\n return o\n}\n\npublic
external interface CacheBatchOperation {\n var type: String?\n get() = definedExternally\n set(value) =
definedExternally\n var request: Request?\n get() = definedExternally\n set(value) = definedExternally\n
var response: Response?\n get() = definedExternally\n set(value) = definedExternally\n var options:
CacheQueryOptions?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline fun CacheBatchOperation(type: String? = undefined, request: Request? = undefined, response: Response? =
undefined, options: CacheQueryOptions? = undefined): CacheBatchOperation {\n val o = js(\"({})\")\n
o[\"type\"] = type\n o[\"request\"] = request\n o[\"response\"] = response\n o[\"options\"] = options\n return
o\n}\n\n/**\n * Exposes the JavaScript
[CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n */\npublic external
abstract class CacheStorage {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally):
Promise<Any?>\n fun has(cacheName: String): Promise<Boolean>\n fun open(cacheName: String):
Promise<Cache>\n fun delete(cacheName: String): Promise<Boolean>\n fun keys():
Promise<Array<String>>\n}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n
val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
UnionMessagePortOrServiceWorker\n\npublic external interface
UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ServiceWorkerState {\n companion object\n}\n\npublic inline val
ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() =
\"installing\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
\"installed\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
\"activating\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
\"activated\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic
inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
\"redundant\".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
*/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface FrameType {\n companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY:
FrameType get() = \"auxiliary\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val

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FrameType.Companion.TOP_LEVEL: FrameType get() = `top-
level`.asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType
get() = `nested`.asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE:
FrameType get() = `none`.asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(`null`)\n\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic external
interface ClientType {\n    companion object{\n}\n\npublic inline val ClientType.Companion.WINDOW:
ClientType get() = `window`.asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.WORKER: ClientType get() =
`worker`.asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
`sharedworker`.asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get() = `all`.asDynamic().unsafeCast<ClientType>()`, /*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n See github.com/kotlin/dukat for details\n\npackage org.w3c.xr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.files.*\n\n/*\n *
Exposes the JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget)
to Kotlin\n\n */\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n    open var
onloadstart: ((ProgressEvent) -> dynamic)?\n    open var onprogress: ((ProgressEvent) -> dynamic)?\n    open var
onabort: ((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n    open var onload: ((Event) ->
dynamic)?\n    open var ontimeout: ((Event) -> dynamic)?\n    open var onloadend: ((Event) ->
dynamic)?\n}\n\n\npublic external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/*\n *
Exposes the JavaScript [XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to
Kotlin\n\n */\n\npublic external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n    var
onreadystatechange: ((Event) -> dynamic)?\n    open val readyState: Short\n    var timeout: Int\n    var
withCredentials: Boolean\n    open val upload: XMLHttpRequestUpload\n    open val responseURL: String\n    open
val status: Short\n
    open val statusText: String\n    var responseType: XMLHttpRequestResponseType\n    open val response: Any?\n
    open val responseText: String\n    open val responseXML: Document?\n    fun open(method: String, url: String)\n
    fun open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n    fun setRequestHeader(name: String, value: String)\n    fun send(body: dynamic =
definedExternally)\n    fun abort()\n    fun getResponseHeader(name: String): String?\n    fun
getAllResponseHeaders(): String\n    fun overrideMimeType(mime: String)\n\n    companion object {\n        val
UNSENT: Short\n        val OPENED: Short\n        val HEADERS_RECEIVED: Short\n        val LOADING:
Short\n        val DONE: Short\n    }\n}\n\n\n/*\n * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n\n */\n\npublic external open class
FormData(form: HTMLFormElement = definedExternally) {\n    fun
append(name: String, value: String)\n    fun append(name: String, value: Blob, filename: String =
definedExternally)\n    fun delete(name: String)\n    fun get(name: String): dynamic\n    fun getAll(name: String):
Array<dynamic>\n    fun has(name: String): Boolean\n    fun set(name: String, value: String)\n    fun set(name:
String, value: Blob, filename: String = definedExternally)\n}\n\n\n/*\n * Exposes the JavaScript
[ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n\n */\n\npublic external open
class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\n    open val
lengthComputable: Boolean\n    open val loaded: Number\n    open val total: Number\n\n    companion object {\n
        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\n\npublic external interface ProgressEventInit : EventInit {\n    var
lengthComputable: Boolean? /* = false

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*^n    get() = definedExternally^n    set(value) = definedExternally^n    var loaded: Number? /* = 0 */^n
get() = definedExternally^n    set(value) = definedExternally^n    var total: Number? /* = 0 */^n    get() =
definedExternally^n    set(value) = definedExternally^n}^n^n@Suppress("\INVISIBLE_REFERENCE",
"\INVISIBLE_MEMBER")^n@kotlin.internal.InlineOnly^npublic inline fun ProgressEventInit(lengthComputable:
Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): ProgressEventInit {^n    val o = js("{}")^n    o["lengthComputable"] =
lengthComputable^n    o["loaded"] = loaded^n    o["total"] = total^n    o["bubbles"] = bubbles^n
o["cancelable"] = cancelable^n    o["composed"] = composed^n    return o^n}^n^n/* please, don't implement this
interface! */^n@JsName("\null")^n@Suppress("\NESTED_CLASS_IN_EXTERNAL_INTERFACE")^npublic
external interface
XMLHttpRequestResponseType {^n    companion object^n}^n^npublic inline val
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()^n^npublic inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
"arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()^n^npublic inline val
XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =
"blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()^n^npublic inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
"document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()^n^npublic inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
"json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()^n^npublic inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
"text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()", /*^n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.^n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.^n */^n^npackage
kotlin^n^nimport kotlin.annotation.AnnotationRetention.BINARY^n^nimport
kotlin.annotation.AnnotationRetention.SOURCE^n^nimport kotlin.annotation.AnnotationTarget.*^n^nimport
kotlin.internal.RequireKotlin^n^nimport kotlin.internal.RequireKotlinVersionKind^n^nimport
kotlin.reflect.KClass^n^n/**^n * Signals that the annotated annotation class is a marker of an experimental API.^n *^n
* Any declaration annotated with that marker is considered an experimental declaration^n * and its call sites should
accept the experimental aspect of it either by using [UseExperimental],^n * or by being annotated with that marker
themselves, effectively causing further propagation of that experimental aspect.^n *^n * This class is deprecated in
favor of a
more general approach provided by [RequiresOptIn]/[OptIn].^n
*/^n@Target(ANNOTATION_CLASS)^n@Retention(BINARY)^n@SinceKotlin("1.2")^n@RequireKotlin("1.2.50
", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)^n@Deprecated("\Please use RequiresOptIn
instead.")^npublic annotation class Experimental(val level: Level = Level.ERROR) {^n    /**^n     * Severity of the
diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental
aspect^n     * of that API either by using [UseExperimental] or by being annotated with the corresponding marker
annotation.^n     */^n    public enum class Level {^n        /** Specifies that a warning should be reported on incorrect
usages of this experimental API. */^n        WARNING,^n        /** Specifies that an error should be reported on
incorrect usages of this experimental API. */^n        ERROR,^n        }^n}^n^n/**^n * Allows to use experimental API
denoted by the given markers in the annotated file,
declaration, or expression.^n * If a declaration is annotated with [UseExperimental], its usages are **not** required
to opt-in to that experimental API.^n *^n * This class is deprecated in favor of a more general approach provided by
[RequiresOptIn]/[OptIn].^n */^n@Target(^n    CLASS, PROPERTY, LOCAL_VARIABLE,
VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER,
EXPRESSION, FILE,

```

```

TYPEALIAS\n\n@Retention(SOURCE)\n@SinceKotlin("1.2")\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n@Deprecated("Please use OptIn instead.",
ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))\npublic annotation class UseExperimental(\n    vararg val
markerClass: KClass<out Annotation>)\n\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)\n@Retention(BINARY)\ninternal annotation class WasExperimental(\n    vararg val markerClass:
KClass<out Annotation>)\n\n", "package kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n
 * This annotation marks the standard library API that is considered experimental and is not subject to the\n *
[general compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given
for the standard library:\n * the behavior of such API may be changed or the API may be removed completely in any
further release.\n * > Beware using the annotated API especially if you're developing a library, since your library
might become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a
declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\n * annotating that usage with the
[OptIn] annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)`,\n * or by using the compiler argument `-Xopt-
in=kotlin.ExperimentalStdlibApi`. \n *\n @Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.ERROR)\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@Retention(AnnotationRetention.BINARY)\n@Target(\n
    CLASS,\n    ANNOTATION_CLASS,\n    PROPERTY,\n    FIELD,\n    LOCAL_VARIABLE,\n
    VALUE_PARAMETER,\n    CONSTRUCTOR,\n    FUNCTION,\n    PROPERTY_GETTER,\n
    PROPERTY_SETTER,\n    TYPEALIAS)\n\n@MustBeDocumented\n@SinceKotlin("1.3")\npublic annotation
class ExperimentalStdlibApi\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\nimport
kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Allows to infer generic type arguments of a function
from the calls in the annotated function parameter of that function.\n *\n * When this annotation is placed on a
generic function parameter of a function,\n * it enables to infer the type arguments of that generic function from the
lambda body passed to that parameter.\n *\n * The calls that affect
inference are either members of the receiver type of an annotated function parameter or\n * extensions for that type.
The extensions must be themselves annotated with `@BuilderInference`.\n *\n * Example: we declare\n * ```\n * fun
<T> sequence(@BuilderInference block: suspend SequenceScope<T>().() -> Unit): Sequence<T>\n * ```\n * and use
it like\n * ```\n * val result = sequence { yield("result") }\n * ```\n * Here the type argument of the resulting
sequence is inferred to `String` from\n * the argument of the [SequenceScope.yield] function, that is called inside
the lambda passed to [sequence].\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on
how to opt-in for it.\n *\n @Target(VALUE_PARAMETER, FUNCTION,
PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@ExperimentalTypeInferenc
e\npublic annotation class BuilderInference\n\n\n/**\n * Enables overload selection based on the type of the value
returned from lambda argument.\n
*\n * When two or more function overloads have otherwise the same parameter lists that differ only in the return
type\n * of a functional parameter, this annotation enables overload selection by the type of the value returned
from\n * the lambda function passed to this functional parameter.\n *\n * Example:\n * ```\n *
@OverloadResolutionByLambdaReturnType\n * fun create(intProducer: () -> Int): Int\n * fun
create(doubleProducer: () -> Double): Double\n * val newValue = create { 3.14 }\n * ```\n *\n * The annotation
being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned\n * from the
lambda function.\n *\n * This annotation is also used to discriminate the annotated overloads in case if overload
selection still cannot\n * choose one of them even taking in account the result of lambda parameter analysis. In that
case a warning is reported.\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how
to opt-in
for it.\n
*\n @Target(FUNCTION)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.4")\n@Experimental

```



```

TypeInference\npublic annotation class OverloadResolutionByLambdaReturnType", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental multiplatform support API marker.\n */\n *
Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\n * annotating
that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,\n * or by using the
compiler argument `-Xopt-in=kotlin.ExperimentalMultiplatform`.\n
*\n\n@Suppress("DEPRECATION")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\n@Target(\n
CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n
VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n
PROPERTY_SETTER,\n
TYPE_ALIAS)\n\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic annotation class ExperimentalMultiplatform\n\n/**\n
* Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n * This
annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as
`"optional"`.\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased when
compiling code on that platform.\n */\n
* Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.\n
*\n\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatfor
m\n@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic
annotation class OptionalExpectation\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated
annotation class is a marker of an API that requires an explicit opt-in.\n */\n * Call sites of any declaration annotated
with that
marker should opt in to the API either by using [OptIn],\n * or by being annotated with that marker themselves,
effectively causing further propagation of the opt-in requirement.\n */\n * This class requires opt-in itself and can
only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n */\n * @property message message to
be reported on usages of API without an explicit opt-in, or empty string for the default message.\n * The
default message is: `\"This declaration is experimental and its usage should be marked with 'Marker`\n *
or '@OptIn(Marker::class)`\", where `Marker` is the opt-in requirement marker.\n * @property level specifies how
usages of API without an explicit opt-in are reported in code.\n
*\n\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70
", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic annotation class RequiresOptIn(\n
val message: String = "",\n
val level: Level = Level.ERROR)\n) {\n    /**\n     * Severity of the diagnostic that should be reported on usages
which did not explicitly opt into\n     * the API either by using [OptIn] or by being annotated with the
corresponding marker annotation.\n     */\n    public enum class Level {\n        /** Specifies that a warning should be
reported on incorrect usages of this API. */\n        WARNING,\n        /** Specifies that an error should be reported
on incorrect usages of this API. */\n        ERROR,\n    }\n}\n\n/**\n * Allows to use the API denoted by the given
markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with [OptIn], its usages are
**not** required to opt in to that API.\n */\n * This class requires opt-in itself and can only be used with the

```

```

compiler argument `Xopt-in=kotlin.RequiresOptIn`.n */n@Target(n CLASS, PROPERTY,
LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER,
PROPERTY_SETTER, EXPRESSION,
FILE, TYPEALIAS)n)n@Retention(SOURCE)n@SinceKotlin("1.3")n@RequireKotlin("1.3.70", versionKind
= RequireKotlinVersionKind.COMPILER_VERSION)npublic annotation class OptIn(n vararg val markerClass:
KClass<out Annotation>n)n", "/*n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.n */npackage kotlin.collections\nimport kotlin.js.JsName\n/n/**n * Provides a skeletal
implementation of the read-only [Collection] interface.n */n * @param E the type of elements contained in the
collection. The collection is covariant in its element type.n */n@SinceKotlin("1.1")npublic abstract class
AbstractCollection<out E> protected constructor() : Collection<E> {n abstract override val size: Int\n abstract
override fun iterator(): Iterator<E>n\n override fun contains(element: @UnsafeVariance E): Boolean = any { it
== element
}n\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =n elements.all {
contains(it) } // use when js will support bound refs: elements.all(this::contains)n\n override fun isEmpty():
Boolean = size == 0\n\n override fun toString(): String = joinToString(", ", "[", "]") {n if (it === this)
\"(this Collection)\" else it.toString()\n }n\n /**n * Returns new array of type `Array<Any?>` with the
elements of this collection.n */n @JsName("toArray")n protected open fun toArray(): Array<Any?> =
copyToArrayImpl(this)n\n /**n * Fills the provided [array] or creates new array of the same type\n * and
fills it with the elements of this collection.n */n protected open fun <T> toArray(array: Array<T>): Array<T>
= copyToArrayImpl(this, array)n\n", "/*n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.n * Use of this source code is governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.n */npackage kotlin.collections\n\nprivate enum
class State {n Ready,n NotReady,n Done,n Failed\n}\n/n/**n * A base class to simplify implementing
iterators so that implementations only have to implement [computeNext]\n * to implement the iterator, calling
[done] when the iteration is complete.n */npublic abstract class AbstractIterator<T> : Iterator<T> {n private var
state = State.NotReady\n private var nextValue: T? = null\n\n override fun hasNext(): Boolean {n
require(state != State.Failed)\n return when (state) {n State.Done -> false\n State.Ready -> true\n
else -> tryToComputeNext()\n }n }n\n override fun next(): T {n if (!hasNext()) throw
NoSuchElementException()\n state = State.NotReady\n @Suppress("UNCHECKED_CAST")n
return nextValue as T\n }n\n private fun tryToComputeNext(): Boolean
{n state = State.Failed\n computeNext()\n return state == State.Ready\n }n\n /**n * Computes
the next item in the iterator.n */n * This callback method should call one of these two methods:\n * [setNext] with the next value of the iteration\n * [done] to indicate there are no more elements\n *
Failure to call either method will result in the iteration terminating with a failed state\n */n abstract protected
fun computeNext(): Unit\n\n /**n * Sets the next value in the iteration, called from the [computeNext]
function\n */n protected fun setNext(value: T): Unit {n nextValue = value\n state = State.Ready\n
}n\n /**n * Sets the state to done so that the iteration terminates.n */n protected fun done() {n state
= State.Done\n }n}\n\n", "/*n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.n */n
Based on GWT AbstractList\n * Copyright 2007 Google Inc.n */npackage kotlin.collections\n/n/**n * Provides
a skeletal implementation of the read-only [List] interface.n */n * This class is intended to help implementing read-
only lists so it doesn't support concurrent modification tracking.n */n * @param E the type of elements contained in
the list. The list is covariant in its element type.n */n@SinceKotlin("1.1")npublic abstract class AbstractList<out
E> protected constructor() : AbstractCollection<E>(), List<E> {n abstract override val size: Int\n abstract
override fun get(index: Int): E\n\n override fun iterator(): Iterator<E> = IteratorImpl()\n\n override fun
indexOf(element: @UnsafeVariance E): Int = indexOfFirst { it == element }n\n override fun

```

```

lastIndexOf(element: @UnsafeVariance E): Int = indexOfLast { it == element }\n\n override
fun listIterator(): ListIterator<E> = ListIteratorImpl(0)\n\n override fun listIterator(index: Int): ListIterator<E> =
ListIteratorImpl(index)\n\n override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex,
toIndex)\n\n private class SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex:
Int) : AbstractList<E>(), RandomAccess {\n    private var _size: Int = 0\n    init {\n
checkRangeIndexes(fromIndex, toIndex, list.size)\n        this._size = toIndex - fromIndex\n    }\n\n
override fun get(index: Int): E {\n        checkElementIndex(index, _size)\n        return list[fromIndex +
index]\n    }\n\n    override val size: Int get() = _size\n }\n\n /**\n * Compares this list with other list
instance with the ordered structural equality.\n * @return true, if [other] instance is a [List] of the same
size, which contains the same elements in the same
order.\n */\n override fun equals(other: Any?): Boolean {\n    if (other === this) return true\n    if (other !is
List<*>) return false\n\n    return orderedEquals(this, other)\n }\n\n /**\n * Returns the hash code value for
this list.\n */\n override fun hashCode(): Int = orderedHashCode(this)\n\n private open inner class IteratorImpl
: Iterator<E> {\n    /** the index of the item that will be returned on the next call to [next]`() */\n    protected
var index = 0\n\n    override fun hasNext(): Boolean = index < size\n\n    override fun next(): E {\n        if
(!hasNext()) throw NoSuchElementException()\n        return get(index++)\n    }\n }\n\n /**\n *
Implementation of [ListIterator] for abstract lists.\n */\n private open inner class ListIteratorImpl(index: Int) :
IteratorImpl(), ListIterator<E> {\n    init {\n        checkPositionIndex(index, this@AbstractList.size)\n
this.index
= index\n    }\n\n    override fun hasNext(): Boolean = index > 0\n\n    override fun nextIndex(): Int =
index\n\n    override fun previous(): E {\n        if (!hasPrevious()) throw NoSuchElementException()\n
return get(--index)\n    }\n\n    override fun previousIndex(): Int = index - 1\n }\n\n internal companion
object {\n    internal fun checkElementIndex(index: Int, size: Int) {\n        if (index < 0 || index >= size) {\n
throw IndexOutOfBoundsException("index: $index, size: $size")\n        }\n    }\n\n    internal fun
checkPositionIndex(index: Int, size: Int) {\n        if (index < 0 || index > size) {\n            throw
IndexOutOfBoundsException("index: $index, size: $size")\n        }\n    }\n\n    internal fun
checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n        if (fromIndex < 0 || toIndex > size) {\n
throw IndexOutOfBoundsException("fromIndex:
$fromIndex, toIndex: $toIndex, size: $size")\n        }\n        if (fromIndex > toIndex) {\n            throw
IllegalArgumentException("fromIndex: $fromIndex > toIndex: $toIndex")\n        }\n    }\n\n    internal fun
checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n        if (startIndex < 0 || endIndex > size) {\n
throw IndexOutOfBoundsException("startIndex: $startIndex, endIndex: $endIndex, size: $size")\n        }\n
if (startIndex > endIndex) {\n            throw IllegalArgumentException("startIndex: $startIndex > endIndex:
$endIndex")\n        }\n    }\n\n    internal fun orderedHashCode(c: Collection<*>): Int {\n        var
hashCode = 1\n        for (e in c) {\n            hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n        }\n
return hashCode\n    }\n\n    internal fun orderedEquals(c: Collection<*>, other: Collection<*>): Boolean
{\n        if (c.size != other.size) return false\n\n        val otherIterator = other.iterator()\n        for (elem in c)
{\n            val elemOther = otherIterator.next()\n            if (elem != elemOther) {\n                return false\n
            }\n        }\n        return true\n    }\n }\n\n /**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n /**\n * Based on GWT AbstractMap\n * Copyright 2007 Google
Inc.\n */\n\n package kotlin.collections\n\n /**\n * Provides a skeletal implementation of the read-only [Map]
interface.\n * The implementor is required to implement [entries] property, which should return read-only set of
map entries.\n * @param K the type of map keys. The map is invariant in its key type.\n * @param V the type of
map values. The map is covariant
in its value type.\n */\n @SinceKotlin("1.1")\n public abstract class AbstractMap<K, out V> protected constructor()
: Map<K, V> {\n    override fun containsKey(key: K): Boolean {\n        return implFindEntry(key) != null\n    }\n\n
override fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }\n\n

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```

internal fun containsEntry(entry: Map.Entry<*, *>?): Boolean {
    // since entry comes from @UnsafeVariance
    // parameters it can be virtually anything
    if (entry !is Map.Entry<*, *>) return false
    val key = entry.key
    val value = entry.value
    val ourValue = get(key)
    if (value != ourValue) {
        return false
    }
    // Perhaps it was null and we don't contain the key?
    if (ourValue == null && !containsKey(key)) {
        return false
    }
    return true
}

/**
 * Compares this map with other instance with the
 * ordered structural equality.
 */
@return true, if [other] instance is a [Map] of the same size, all entries of which are contained in the
[entries] set of this map.
override fun equals(other: Any?): Boolean {
    if (other === this) return true
    if (other !is Map<*, *>) return false
    if (size != other.size) return false
    return other.entries.all { containsEntry(it) }
}

override operator fun get(key: K): V? =
implFindEntry(key)?.value

/**
 * Returns the hash code value for this map.
 * It is the same as the hashCode of [entries] set.
 */
override fun hashCode(): Int = entries.hashCode()

override fun isEmpty(): Boolean = size == 0

override val size: Int get() = entries.size

/**
 * Returns a read-only [Set] of all keys in this map.
 * Accessing this property first time creates a keys view from [entries].
 * All subsequent accesses just return the created instance.
 */
override val keys: Set<K> get() {
    if (_keys == null) {
        _keys = object :
AbstractSet<K>() {
            override operator fun contains(element: K): Boolean = containsKey(element)
            override operator fun iterator(): Iterator<K> {
                val entryIterator = entries.iterator()
                return object : Iterator<K> {
                    override fun hasNext(): Boolean = entryIterator.hasNext()
                    override fun next(): K = entryIterator.next().key
                }
            }
            override val size: Int get() = this@AbstractMap.size
        }
        return _keys!!
    }
}

@kotlin.jvm.Volatile
private var _keys: Set<K>? = null

override fun toString(): String =
entries.joinToString(", ", "\n", "\n") { toString(it) }

private fun toString(entry: Map.Entry<K,
V>): String = toString(entry.key) + "=" + toString(entry.value)

private fun toString(o: Any?): String = if (o
=== this) "(this Map)" else o.toString()

/**
 * Returns a read-only [Collection] of all values in this map.
 * Accessing this property first time creates a values view from [entries].
 * All subsequent accesses just
return the created instance.
 */
override val values: Collection<V> get() {
    if (_values == null) {
        _values = object : AbstractCollection<V>() {
            override operator fun contains(element:
@UnsafeVariance V): Boolean = containsValue(element)
            override operator fun iterator():
Iterator<V> {
                val entryIterator = entries.iterator()
                return object : Iterator<V> {
                    override fun hasNext(): Boolean = entryIterator.hasNext()
                    override fun next():
V = entryIterator.next().value
                }
            }
            override val size: Int get() =
this@AbstractMap.size
        }
        return _values!!
    }
}

@kotlin.jvm.Volatile
private var _values: Collection<V>? = null

private fun implFindEntry(key: K): Map.Entry<K, V>? =
entries.firstOrNull { it.key == key }

internal companion object {
    internal fun entryHashCode(e:
Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }
    internal fun
entryToString(e: Map.Entry<*, *>): String = with(e) { "$key=$value" }
    internal fun entryEquals(e:
Map.Entry<*, *>, other: Any?): Boolean {
        if (other !is Map.Entry<*, *>) return false
        return e.key
== other.key && e.value == other.value
    }
}

/**
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Programming Language contributors.
 * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package
kotlin.collections

/**
 * Provides a skeletal implementation of the read-only [Set] interface.
 * This class is
intended to help implementing read-only sets so it doesn't support concurrent modification tracking.
 */
@param
E the type of elements contained in the set. The set is covariant in its element type.

@SinceKotlin("1.1")
public abstract class AbstractSet<out E> protected constructor() :
AbstractCollection<E>(), Set<E> {
    /**
 * Compares this set with other set instance with the unordered
structural equality.
 */
    @return true, if [other] instance is a [Set] of the same size, all elements of which are
contained in this set.
    override fun equals(other: Any?): Boolean {
        if (other === this) return true

```

```

if (other !is Set<*>) return false\n    return setEquals(this, other)\n } \n\n /**\n
 * Returns the hash code value for this set.\n * \n override fun hashCode(): Int =
unorderedHashCode(this)\n\n internal companion object {\n    internal fun unorderedHashCode(c:
Collection<*>): Int {\n        var hashCode = 0\n        for (element in c) {\n            hashCode +=
(element?.hashCode() ?: 0)\n        }\n        return hashCode\n    }\n\n    internal fun setEquals(c: Set<*>,
other: Set<*>): Boolean {\n        if (c.size != other.size) return false\n        return c.containsAll(other)\n    }\n
}\n\n}", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.collections\n\n/**\n * Resizable-array implementation of the deque data structure.\n * \n * The
name deque is short for "double ended queue" and is usually pronounced "deck".\n * \n *
The collection provide methods for convenient access to the both ends.\n * It also implements [MutableList]
interface and supports efficient get/set operations by index.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic class ArrayDeque<E> :
AbstractMutableList<E> {\n    private var head: Int = 0\n    private var elementData: Array<Any?>\n\n    override
var size: Int = 0\n    private set\n\n    /**\n     * Constructs an empty deque with specified [initialCapacity], or
throws [IllegalArgumentException] if [initialCapacity] is negative.\n     * \n     public constructor(initialCapacity:
Int) {\n        elementData = when {\n            initialCapacity == 0 -> emptyElementData\n            initialCapacity > 0 -
> arrayOfNulls(initialCapacity)\n            else -> throw IllegalArgumentException("Illegal Capacity:
$initialCapacity")\n        }\n    }\n\n    /**\n     * Constructs an empty deque.\n     * \n     public constructor() {\n
elementData
= emptyElementData\n    }\n\n    /**\n     * Constructs a deque that contains the same elements as the specified
[elements] collection in the same order.\n     * \n     public constructor(elements: Collection<E>) {\n
elementData = elements.toArray()\n        size = elementData.size\n        if (elementData.isEmpty())
elementData = emptyElementData\n    }\n\n    /**\n     * Ensures that the capacity of this deque is at least equal to
the specified [minCapacity].\n     * \n     * If the current capacity is less than the [minCapacity], a new backing
storage is allocated with greater capacity.\n     * \n     * Otherwise, this method takes no action and simply returns.\n     * \n
private fun ensureCapacity(minCapacity: Int) {\n        if (minCapacity < 0) throw IllegalStateException("Deque is
too big.") // overflow\n        if (minCapacity <= elementData.size) return\n        if (elementData ===
emptyElementData) {\n            elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n
            return\n        }\n        val newCapacity = newCapacity(elementData.size, minCapacity)\n
copyElements(newCapacity)\n    }\n\n    /**\n     * Creates a new array with the specified [newCapacity] size and
copies elements in the [elementData] array to it.\n     * \n     private fun copyElements(newCapacity: Int) {\n
val newElements = arrayOfNulls<Any?>(newCapacity)\n        elementData.copyInto(newElements, 0, head,
elementData.size)\n        elementData.copyInto(newElements, elementData.size - head, 0, head)\n        head = 0\n
elementData = newElements\n    }\n\n    @kotlin.internal.InlineOnly\n    private inline fun
internalGet(internalIndex: Int): E {\n        @Suppress("UNCHECKED_CAST")\n        return
elementData[internalIndex] as E\n    }\n\n    private fun positiveMod(index: Int): Int = if (index >=
elementData.size) index - elementData.size else index\n\n    private fun negativeMod(index: Int): Int = if (index < 0)
index +
elementData.size else index\n\n    @kotlin.internal.InlineOnly\n    private inline fun internalIndex(index: Int): Int =
positiveMod(head + index)\n\n    private fun incremented(index: Int): Int = if (index == elementData.lastIndex) 0
else index + 1\n\n    private fun decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index -
1\n\n    override fun isEmpty(): Boolean = size == 0\n\n    /**\n     * Returns the first element, or throws
[NoSuchElementException] if this deque is empty.\n     * \n     public fun first(): E = if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.") else internalGet(head)\n\n    /**\n     * Returns the first
element, or `null` if this deque is empty.\n     * \n     public fun firstOrNull(): E? = if (isEmpty()) null else
internalGet(head)\n\n    /**\n     * Returns the last element, or throws [NoSuchElementException] if this deque is
empty.\n     * \n     public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque

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is empty.\") else internalGet(internalIndex(lastIndex))\n\n /**\n * Returns the last element, or `null` if this
deque is empty.\n */\n public fun lastOrNull(): E? = if (isEmpty()) null else
internalGet(internalIndex(lastIndex))\n\n /**\n * Prepends the specified [element] to this deque.\n */\n
public fun addFirst(element: E) {\n    ensureCapacity(size + 1)\n\n    head = decremented(head)\n
elementData[head] = element\n    size += 1\n } \n\n /**\n * Appends the specified [element] to this deque.\n
*/\n public fun addLast(element: E) {\n    ensureCapacity(size + 1)\n\n    elementData[internalIndex(size)] =
element\n    size += 1\n } \n\n /**\n * Removes the first element from this deque and returns that removed
element, or throws [NoSuchElementException] if this deque is empty.\n */\n public fun removeFirst(): E {\n
if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n\n    val element = internalGet(head)\n
    elementData[head] = null\n    head = incremented(head)\n    size -=
1\n    return element\n } \n\n /**\n * Removes the first element from this deque and returns that removed
element, or returns `null` if this deque is empty.\n */\n public fun removeFirstOrNull(): E? = if (isEmpty()) null
else removeFirst()\n\n /**\n * Removes the last element from this deque and returns that removed element, or
throws [NoSuchElementException] if this deque is empty.\n */\n public fun removeLast(): E {\n    if
(isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n\n    val internalLastIndex =
internalIndex(lastIndex)\n    val element = internalGet(internalLastIndex)\n    elementData[internalLastIndex] =
null\n    size -= 1\n    return element\n } \n\n /**\n * Removes the last element from this deque and returns
that removed element, or returns `null` if this deque
is empty.\n */\n public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()\n\n //
MutableList, MutableCollection\n public override fun add(element: E): Boolean {\n    addLast(element)\n
return true\n } \n\n public override fun add(index: Int, element: E) {\n
AbstractList.checkPositionIndex(index, size)\n\n    if (index == size) {\n        addLast(element)\n
return\n    } else if (index == 0) {\n        addFirst(element)\n        return\n    } \n\n    ensureCapacity(size
+ 1)\n\n    // Elements in circular array lay in 2 ways:\n    // 1. `head` is less than `tail`:    [#, #, e1, e2, e3,
#]\n    // 2. `head` is greater than `tail`:    [e3, #, #, #, e1, e2]\n    // where head is the index of the first element
in the circular array,\n    // and tail is the index following the last element.\n    // \n\n    // At this point the
insertion index is not equal to head or tail.\n\n    // Also the circular array can store at least one more element.\n    // \n\n    // Depending on where the given
element must be inserted the preceding or the succeeding\n    // elements will be shifted to make room for the
element to be inserted.\n    // \n\n    // In case the preceding elements are shifted:\n    // * if the insertion index
is greater than the head (regardless of circular array form)\n    // -> shift the preceding elements\n    // *
otherwise, the circular array has (2) form and the insertion index is less than tail\n    // -> shift all elements in
the back of the array\n    // -> shift preceding elements in the front of the array\n    // In case the succeeding
elements are shifted:\n    // * if the insertion index is less than the tail (regardless of circular array form)\n    //
-> shift the succeeding elements\n    // * otherwise, the circular array has (2) form and the insertion
index is greater than head\n    // -> shift all elements in the front of the array\n    // -> shift succeeding
elements in the back of the array\n\n    val internalIndex = internalIndex(index)\n\n    if (index < (size + 1) shr
1) {\n        // closer to the first element -> shift preceding elements\n        val decrementedInternalIndex =
decremented(internalIndex)\n        val decrementedHead = decremented(head)\n        if
(decrementedInternalIndex >= head) {\n            elementData[decrementedHead] = elementData[head] // head can
be zero\n            elementData.copyInto(elementData, head, head + 1, decrementedInternalIndex + 1)\n        }
else { // head > tail\n            elementData.copyInto(elementData, head - 1, head, elementData.size) // head can't be
zero\n            elementData[elementData.size - 1] = elementData[0]\n            elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n
        }\n        elementData[decrementedInternalIndex] = element\n        head = decrementedHead\n    } else
{\n        // closer to the last element -> shift succeeding elements\n        val tail = internalIndex(size)\n\n
if (internalIndex < tail) {\n            elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n
        } else { // head > tail\n            elementData.copyInto(elementData, 1, 0, tail)\n            elementData[0] =

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elementData[elementData.size - 1]\n          elementData.copyInto(elementData, internalIndex + 1, internalIndex,
elementData.size - 1)\n          }\n          elementData[internalIndex] = element\n          }\n          size += 1\n          }\n\nprivate fun copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n    val iterator =
elements.iterator()\n    for (index in internalIndex until elementData.size) {\n        if (!iterator.hasNext())
break\n
        elementData[index] = iterator.next()\n    }\n    for (index in 0 until head) {\n        if
(!iterator.hasNext()) break\n        elementData[index] = iterator.next()\n    }\n    size += elements.size\n
}\n\npublic override fun addAll(elements: Collection<E>): Boolean {\n    if (elements.isEmpty()) return false\n
ensureCapacity(this.size + elements.size)\n    copyCollectionElements(internalIndex(size), elements)\n
return true\n }\n\npublic override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
AbstractList.checkPositionIndex(index, size)\n    if (elements.isEmpty()) {\n        return false\n    } else if
(index == size) {\n        return addAll(elements)\n    }\n    ensureCapacity(this.size + elements.size)\n
val tail = internalIndex(size)\n    val internalIndex = internalIndex(index)\n    val elementsSize =
elements.size\n    if (index < (size +
1) shr 1) {\n        // closer to the first element -> shift preceding elements\n        var shiftedHead = head -
elementsSize\n        if (internalIndex >= head) {\n            if (shiftedHead >= 0) {\n
elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n            } else { // head < tail, insertion
leads to head >= tail\n                shiftedHead += elementData.size\n                val elementsToShift =
internalIndex - head\n                val shiftToBack = elementData.size - shiftedHead\n                if (shiftToBack
>= elementsToShift) {\n                    elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n
                } else {\n                    elementData.copyInto(elementData, shiftedHead, head, head + shiftToBack)\n
                    elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n                }\n
            } else { // head > tail, internalIndex < tail\n                elementData.copyInto(elementData, shiftedHead, head,
elementData.size)\n                if (elementsSize >= internalIndex) {\n                    elementData.copyInto(elementData,
elementData.size - elementsSize, 0, internalIndex)\n                } else {\n
                    elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n
                    elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n                }\n            }\n
            head =
shiftedHead\n            copyCollectionElements(negativeMod(internalIndex - elementsSize), elements)\n        } else
{\n            // closer to the last element -> shift succeeding elements\n            val shiftedInternalIndex =
internalIndex + elementsSize\n            if (internalIndex < tail) {\n                if (tail + elementsSize <=
elementData.size) {\n                    elementData.copyInto(elementData, shiftedInternalIndex,
internalIndex, tail)\n                } else { // head < tail, insertion leads to head >= tail\n                    if
(shiftedInternalIndex >= elementData.size) {\n                        elementData.copyInto(elementData,
shiftedInternalIndex - elementData.size, internalIndex, tail)\n                    } else {\n                        val shiftToFront =
tail + elementsSize - elementData.size\n                        elementData.copyInto(elementData, 0, tail - shiftToFront,
tail)\n                        elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail - shiftToFront)\n
                    }\n                }\n            } else { // head > tail, internalIndex > head\n
elementData.copyInto(elementData, elementsSize, 0, tail)\n                if (shiftedInternalIndex >= elementData.size)\n
{\n                    elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex,
elementData.size)\n                }\n            } else {\n                elementData.copyInto(elementData, 0, elementData.size - elementsSize,
elementData.size)\n                elementData.copyInto(elementData, shiftedInternalIndex, internalIndex,
elementData.size - elementsSize)\n            }\n        }\n        copyCollectionElements(internalIndex,
elements)\n    }\n\nreturn true\n }\n\npublic override fun get(index: Int): E {\n
AbstractList.checkElementIndex(index, size)\n    return internalGet(internalIndex(index))\n }\n\npublic
override fun set(index: Int, element: E): E {\n    AbstractList.checkElementIndex(index, size)\n    val
internalIndex = internalIndex(index)\n    val oldElement = internalGet(internalIndex)\n
elementData[internalIndex] = element\n    return oldElement\n }\n\npublic override fun contains(element:

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E): Boolean = indexOf(element) != -1\n\n public override fun indexOf(element: E): Int {\n    val tail
= internalIndex(size)\n\n    if (head < tail) {\n        for (index in head until tail) {\n            if (element ==
elementData[index]) return index - head\n        }\n    } else if (head >= tail) {\n        for (index in head until
elementData.size) {\n            if (element == elementData[index]) return index - head\n        }\n    } for
(index in 0 until tail) {\n        if (element == elementData[index]) return index + elementData.size - head\n
    }\n}\n\n return -1\n}\n\n public override fun lastIndexOf(element: E): Int {\n    val tail =
internalIndex(size)\n\n    if (head < tail) {\n        for (index in tail - 1 downTo head) {\n            if (element ==
elementData[index]) return index - head\n        }\n    } else if (head > tail) {\n        for (index in tail - 1
downTo 0) {\n            if (element == elementData[index]) return index + elementData.size - head\n
        }\n    } for (index in elementData.lastIndex downTo head) {\n        if (element ==
elementData[index]) return index - head\n    }\n}\n\n return -1\n}\n\n public override fun
remove(element: E): Boolean {\n    val index = indexOf(element)\n    if (index == -1) return false\n
removeAt(index)\n    return true\n}\n\n public override fun removeAt(index: Int): E {\n
AbstractList.checkElementIndex(index, size)\n\n    if (index == lastIndex) {\n        return removeLast()\n    }
else if (index == 0) {\n        return removeFirst()\n    }\n\n    val internalIndex = internalIndex(index)\n
val element = internalGet(internalIndex)\n\n    if (index < size shr 1) {\n        // closer to the first element ->
shift preceding elements\n        if (internalIndex >= head) {\n            elementData.copyInto(elementData, head
+ 1, head, internalIndex)\n        } else {\n
// head > tail, internalIndex < head\n            elementData.copyInto(elementData, 1, 0, internalIndex)\n
elementData[0] = elementData[elementData.size - 1]\n            elementData.copyInto(elementData, head + 1,
head, elementData.size - 1)\n        }\n        elementData[head] = null\n        head = incremented(head)\n
    } else {\n        // closer to the last element -> shift succeeding elements\n        val internalLastIndex =
internalIndex(lastIndex)\n        if (internalIndex <= internalLastIndex) {\n
elementData.copyInto(elementData, internalIndex, internalIndex + 1, internalLastIndex + 1)\n        } else { // head
> tail, internalIndex > head\n            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
elementData.size)\n            elementData[elementData.size - 1] = elementData[0]\n
elementData.copyInto(elementData, 0, 1, internalLastIndex + 1)\n        }\n    }\n\n    elementData[internalLastIndex] = null\n    }\n    size -- 1\n\n    return element\n}\n\n public
override fun removeAll(elements: Collection<E>): Boolean = filterInPlace { !elements.contains(it) }\n\n public
override fun retainAll(elements: Collection<E>): Boolean = filterInPlace { elements.contains(it) }\n\n private
inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n    if (this.isEmpty() || elementData.isEmpty())\n
return false\n\n    val tail = internalIndex(size)\n    var newTail = head\n    var modified = false\n\n    if
(head < tail) {\n        for (index in head until tail) {\n            val element = elementData[index]\n\n
@Suppress("UNCHECKED_CAST")\n            if (predicate(element as E))\n
elementData[newTail++] = element\n            else\n                modified = true\n        }\n    }\n\n    elementData.fill(null, newTail, tail)\n\n
    } else {\n        for (index in head until elementData.size) {\n            val element = elementData[index]\n
elementData[index] = null\n\n            @Suppress("UNCHECKED_CAST")\n            if
(predicate(element as E))\n                elementData[newTail++] = element\n            else\n                modified =
true\n        }\n\n        newTail = positiveMod(newTail)\n\n        for (index in 0 until tail) {\n            val
element = elementData[index]\n            elementData[index] = null\n\n            @Suppress("UNCHECKED_CAST")\n            if (predicate(element as E)) {\n
elementData[newTail] = element\n                newTail = incremented(newTail)\n            } else {\n
modified = true\n            }\n        }\n    }\n\n    if (modified)\n        size = negativeMod(newTail -
head)\n\n    return modified\n}\n\n\n public override fun clear() {\n    val tail = internalIndex(size)\n    if (head < tail) {\n
elementData.fill(null, head, tail)\n    } else if (isNotEmpty()) {\n        elementData.fill(null, head,
elementData.size)\n        elementData.fill(null, 0, tail)\n    }\n\n    head = 0\n    size = 0\n}\n\n}

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@Suppress("NOTHING_TO_OVERRIDE")\n override fun <T> toArray(array: Array<T>): Array<T> {\n
@Suppress("UNCHECKED_CAST")\n     val dest = (if (array.size >= size) array else arrayOfNulls(array, size))
as Array<Any?>\n\n     val tail = internalIndex(size)\n     if (head < tail) {\n         elementData.copyInto(dest,
startIndex = head, endIndex = tail)\n     } else if (isEmpty()) {\n         elementData.copyInto(dest,
destinationOffset = 0, startIndex = head, endIndex = elementData.size)\n         elementData.copyInto(dest,
destinationOffset = elementData.size - head, startIndex = 0, endIndex = tail)\n
    }\n    if (dest.size > size) {\n        dest[size] = null // null-terminate\n    }\n\n
@Suppress("UNCHECKED_CAST")\n    return dest as Array<T>\n }\n\n
@Suppress("NOTHING_TO_OVERRIDE")\n override fun toArray(): Array<Any?> {\n    return
toArray(arrayOfNulls<Any?>(size))\n }\n\n // for testing\n internal fun <T> testToArray(array: Array<T>):
Array<T> = toArray(array)\n internal fun testToArray(): Array<Any?> = toArray()\n\n internal companion
object {\n    private val emptyElementData = emptyArray<Any?>()\n    private const val maxArraySize =
Int.MAX_VALUE - 8\n    private const val defaultMinCapacity = 10\n    internal fun
newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n        // overflow-conscious\n        var newCapacity =
oldCapacity + (oldCapacity shr 1)\n        if (newCapacity - minCapacity < 0)\n            newCapacity =
minCapacity\n        if (newCapacity - maxArraySize > 0)\n            newCapacity = if (minCapacity > maxArraySize) Int.MAX_VALUE else maxArraySize\n        return
newCapacity\n    }\n }\n\n // For testing only\n internal fun internalStructure(structure: (head: Int, elements:
Array<Any?>) -> Unit) {\n    val tail = internalIndex(size)\n    val head = if (isEmpty() || head < tail) head else
head - elementData.size\n    structure(head, toArray())\n }\n\n }", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName("ArraysKt")\n\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\n\n/**\n * Returns a single list of all elements from all arrays in the
given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\n\npublic fun <T> Array<out
Array<out T>>.flatten():
List<T> {\n    val result = ArrayList<T>(sumOf { it.size })\n    for (element in this) {\n
result.addAll(element)\n    }\n    return result\n }\n\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from
the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this
array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n */\n\npublic fun <T, R> Array<out
Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>(size)\n    val listR =
ArrayList<R>(size)\n    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return
listT to listR\n }\n\n\n/**\n * Returns `true` if this nullable array is either null or empty.\n * @sample
samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
*/\n\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean
{\n    contract {\n        returns(false) implies (this@isNullOrEmpty
!= null)\n    }\n    return this == null || this.isEmpty()\n }\n\n\n/**\n * Returns this array if it's not empty\n * or the
result of calling [defaultValue] function if the array is empty.\n * @sample
samples.collections.Arrays.Usage.arrayIfEmpty\n
*/\n\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n\n @Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")\n\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n    if (isEmpty())
defaultValue() else
this\n\n\n @OptIn(ExperimentalUnsignedTypes::class)\n @SinceKotlin("1.3")\n @PublishedApi\n @kotlin.jvm.Jvm
Name("contentDeepEquals")\n @kotlin.js.JsName("contentDeepEqualsImpl")\n\ninternal fun <T> Array<out
T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n    if (this === other) return true\n    if (this == null
|| other == null || this.size != other.size) return false\n    for (i in indices) {\n        val v1 = this[i]\n        val v2 =
other[i]\n        if (v1 === v2) {\n            continue\n

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    } else if (v1 == null || v2 == null) {\n        return false\n    }\n\n    when {\n        v1 is Array<*> &&\n        v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return false\n        v1 is ByteArray && v2 is ByteArray -\n        > if (!v1.contentEquals(v2)) return false\n        v1 is ShortArray && v2 is ShortArray -> if\n        (!v1.contentEquals(v2)) return false\n        v1 is IntArray && v2 is IntArray -> if (!v1.contentEquals(v2))\n        return false\n        v1 is LongArray && v2 is LongArray -> if (!v1.contentEquals(v2)) return false\n        v1\n        is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2)) return false\n        v1 is DoubleArray && v2\n        is DoubleArray -> if (!v1.contentEquals(v2)) return false\n        v1 is CharArray && v2 is CharArray -> if\n        (!v1.contentEquals(v2)) return false\n        v1 is BooleanArray && v2 is BooleanArray -> if\n        (!v1.contentEquals(v2)) return false\n\n        v1 is UByteArray && v2 is UByteArray -> if (!v1.contentEquals(v2)) return false\n        v1 is UShortArray\n        && v2 is UShortArray -> if (!v1.contentEquals(v2)) return false\n        v1 is UIntArray && v2 is UIntArray -\n        > if (!v1.contentEquals(v2)) return false\n        v1 is ULongArray && v2 is ULongArray -> if\n        (!v1.contentEquals(v2)) return false\n    } else -> if (v1 != v2) return false\n    }\n\n    return\n    true\n}\n\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.\nJsName("contentDeepToStringImpl")\ninternal fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n    if (this == null) return "null"\n    val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not\n    to overflow Int.MAX_VALUE\n    return buildString(length) {\n        contentDeepToStringInternal(this,\n        mutableListOf())\n    }\n}\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out\nT>.contentDeepToStringInternal(result:\nString\nBuilder, processed: MutableList<Array<*>>) {\n    if (this in processed) {\n        result.append("[...]")\n        return\n    }\n    processed.add(this)\n    result.append("[")\n    for (i in indices) {\n        if (i != 0) {\n            result.append(", ")\n        }\n        val element = this[i]\n        when (element) {\n            null ->\n            result.append("null")\n            is Array<*> -> element.contentDeepToStringInternal(result, processed)\n            is ByteArray -> result.append(element.contentToString())\n            is ShortArray ->\n            result.append(element.contentToString())\n            is IntArray -> result.append(element.contentToString())\n            is LongArray -> result.append(element.contentToString())\n            is FloatArray ->\n            result.append(element.contentToString())\n            is DoubleArray -> result.append(element.contentToString())\n            is CharArray -> result.append(element.contentToString())\n            is BooleanArray -> result.append(element.contentToString())\n            is UByteArray ->\n            result.append(element.contentToString())\n            is UShortArray -> result.append(element.contentToString())\n            is UIntArray -> result.append(element.contentToString())\n            is ULongArray ->\n            result.append(element.contentToString())\n            else -> result.append(element.toString())\n        }\n    }\n\n    result.append("]")\n    processed.removeAt(processed.lastIndex)\n}"/**\n * Copyright 2010-2021 JetBrains\ns.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0\nlicense that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/** Returns true if\nthe brittle contains optimization is enabled. See KT-45438. */\ninternal expect fun\nbrittleContainsOptimizationEnabled(): Boolean\n\n/** Returns true if [brittleContainsOptimizationEnabled]\nis true\n * and it's safe to convert this collection to a set without changing contains method behavior.\n */\nprivate\nfun <T> Collection<T>.safeToConvertToSet() = brittleContainsOptimizationEnabled() && size > 2 && this is\nArrayList\n\n/**\n * When [brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is\nnot a [Collection].\n * - Converts this [Collection] to a set, when it's worth so and it doesn't change contains method\nbehavior.\n * - Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this\n[Iterable] to a list if it is not a [Collection].\n * - Otherwise returns this.\n */\ninternal fun <T>\nIterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\nwhen (this) {\n    is\nSet -> this\n    is Collection -> when {\n        source is Collection && source.size < 2 -> this\n        else -> if (this.safeToConvertToSet()) toHashSet()\n        else this\n    }\n    else -> if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n}\n\n/**\n * When [brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a

```

[Collection].\n \* - Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n \* - Otherwise returns this.\n \* When [brittleContainsOptimizationEnabled] is false:\n \* - Converts this [Iterable] to a list if it is not a [Collection].\n \* - Otherwise returns this.\n \*/\n\ninternal fun <T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\n when (this) {\n is Set -> this\n is Collection -> if (this.safeToConvertToSet()) toHashSet() else this\n else -> if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n }\n\n/\*\*\n \* Converts this sequence to a set if [brittleContainsOptimizationEnabled] is true,\n \* otherwise converts it to a list.\n \*/\n\ninternal fun <T> Sequence<T>.convertToSetForSetOperation(): Collection<T> =\n if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n\n/\*\*\n \* Converts this array to a set if [brittleContainsOptimizationEnabled] is true,\n \* otherwise converts it to a list.\n \*/\n\ninternal fun <T> Array<T>.convertToSetForSetOperation(): Collection<T> =\n if (brittleContainsOptimizationEnabled()) toHashSet() else asList()","/>\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.collections\n\n/\*\*\n \* Data class representing a value from a collection or sequence, along with its index in that collection or sequence.\n \*/\n \* @property value the underlying value.\n \* @property index the index of the value in the collection or sequence.\n \*/\n\npublic data class IndexedValue<out T>(public val index: Int, public val value: T)\n\n"/>\n \* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n@file:kotlin.jvm.JvmName("MapAccessorsKt")\n\npackage kotlin.collections\n\nimport kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/\*\*\n \* Returns the value of the property for the given object from this read-only map.\n \* @param thisRef the object for which the value is requested (not used).\n \* @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n \* @return the property value.\n \* @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef: Any?, property: KProperty<\*>): V1 =\n @Suppress("UNCHECKED\_CAST") (getOrImplicitDefault(property.name) as V1)\n\n/\*\*\n \* Returns the value of the property for the given object from this mutable map.\n \* @param thisRef the object for which the value is requested (not used).\n \* @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n \* @return the property value.\n \* @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n \*/\n\n@kotlin.jvm.JvmName("getVar")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<\*>): V1 =\n @Suppress("UNCHECKED\_CAST") (getOrImplicitDefault(property.name) as V1)\n\n/\*\*\n \* Stores the value of the property for the given object in this mutable map.\n \* @param thisRef the object for which the value is requested (not used).\n \* @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\n \* @param value the value to set.\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<\*>, value: V) {\n this.put(property.name, value)\n}\n\n"/>\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage kotlin.collections\n\n/\*\*\n \* Returns the value for the given key, or the implicit default value for this map.\n \* By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n \* To create a map with implicit default value use [withDefault] method.\n \* @throws NoSuchElementException

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when the map doesn't contain a value for the specified key and no implicit default was provided for that map.\n
*\n@kotlin.jvm.JvmName("\ngetOrImplicitDefaultNullable")\n@PublishedApi\ninternal fun <K, V> Map<K,\n
V>.getOrImplicitDefault(key: K): V {\n    if (this is MapWithDefault)\n        return\n
this.getOrImplicitDefault(key)\n    return getOrElseNullable(key, { throw NoSuchElementException("Key $key\n
is missing in the map.") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default value\n
provided with the specified function [defaultValue].\n * This implicit default value is used when the original\n
map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for\n
example when properties are delegated to the map.\n * This\n * When this map already has an implicit default value\n
provided with a former call to [withDefault], it is being replaced by this call.\n */\n\npublic fun <K, V> Map<K,\n
V>.withDefault(defaultValue:\n
(key: K) -> V): Map<K, V> =\n    when (this) {\n        is MapWithDefault -> this.map.withDefault(defaultValue)\n
        else -> MapWithDefaultImpl(this, defaultValue)\n    }\n\n/**\n * Returns a wrapper of this mutable map, having\n
the implicit default value provided with the specified function [defaultValue].\n * This implicit default value is\n
used when the original map doesn't contain a value for the key specified\n * and a value is obtained with\n
[Map.getValue] function, for example when properties are delegated to the map.\n * This\n * When this map already has\n
an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n */\n\n*\n@kotlin.jvm.JvmName("\nwithDefaultMutable")\n\npublic fun <K, V> MutableMap<K,\n
V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n    when (this) {\n        is\n
MutableMapWithDefault -> this.map.withDefault(defaultValue)\n        else -> MutableMapWithDefaultImpl(this,\n
defaultValue)\n    }\n\nprivate\n
interface MapWithDefault<K, out V> : Map<K, V> {\n    public val map: Map<K, V>\n    public fun\n
getOrImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> : MutableMap<K, V>,\n
MapWithDefault<K, V> {\n    public override val map: MutableMap<K, V>\n}\n\nprivate class\n
MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :  

MapWithDefault<K, V> {\n    override fun equals(other: Any?): Boolean = map.equals(other)\n    override fun  

hashCode(): Int = map.hashCode()\n    override fun toString(): String = map.toString()\n    override val size: Int get()  

= map.size\n    override fun isEmpty(): Boolean = map.isEmpty()\n    override fun containsKey(key: K): Boolean =  

map.containsKey(key)\n    override fun containsValue(value: @UnsafeVariance V): Boolean =  

map.containsValue(value)\n    override fun get(key: K): V? = map.get(key)\n    override val keys: Set<K> get() =  

map.keys\n    override val values: Collection<V> get()  

= map.values\n    override val entries: Set<Map.Entry<K, V>> get() = map.entries\n}\n\nprivate class  

MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) ->  

V) : MutableMapWithDefault<K, V> {\n    override fun equals(other: Any?): Boolean = map.equals(other)\n}\n\noverride fun hashCode(): Int = map.hashCode()\n    override fun toString(): String = map.toString()\n    override val  

size: Int get() = map.size\n    override fun isEmpty(): Boolean = map.isEmpty()\n    override fun containsKey(key:  

K): Boolean = map.containsKey(key)\n    override fun containsValue(value: @UnsafeVariance V): Boolean =  

map.containsValue(value)\n    override fun get(key: K): V? = map.get(key)\n    override val keys: MutableSet<K>  

get() = map.keys\n    override val values: MutableCollection<V> get() = map.values\n    override val entries:  

MutableSet<MutableMap.MutableEntry<K,\n
V>> get() = map.entries\n    override fun put(key: K, value: V): V? = map.put(key, value)\n    override fun  

remove(key: K): V? = map.remove(key)\n    override fun putAll(from: Map<out K, V>) = map.putAll(from)\n}\n\noverride fun clear() = map.clear()\n}\n\nprivate fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key,\n
{ default(key) })\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language  

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the  

license/LICENSE.txt file.\n */\n\n*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage  

kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element

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from this collection, if it is present. Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`. @return `true` if the element has been successfully removed; `false` if it was not present in the collection.

```

@kotlin.internal.InlineOnly
public inline fun
<@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =
@Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).remove(element)

```

Removes all of this collection's elements that are also contained in the specified collection. Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`. @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.

```

*\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =\n @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection that are contained in the specified collection.\n\n * Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`. @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n\n *\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\n @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable collection.\n\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T) {\n this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable collection.\n\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] array to this mutable collection.\n\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this mutable collection.\n\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable collection.\n\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(element: T) {\n this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given [elements] collection from this mutable collection.\n\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] array from this mutable collection.\n\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] sequence from this mutable collection.\n\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this [MutableCollection].\n\n *\npublic fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n when (elements) {\n is Collection -> return addAll(elements)\n else -> {\n var result: Boolean = false\n for (item in elements)\n if (add(item)) result = true\n return result\n }\n }\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this [MutableCollection].\n\n *\npublic fun <T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {\n var result: Boolean = false\n for (item in elements) {\n if (add(item)) result = true\n }\n return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this [MutableCollection].\n\n *\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\n return addAll(elements.asList())\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.\n\n *\npublic fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {\n return removeAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Removes all elements from this

```

```

[MutableCollection] that are also contained in the given [elements] sequence.\n */\npublic fun <T>
MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n    val set =
elements.convertToSetForSetOperation()\n    return set.isNotEmpty()
    && removeAll(set)\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the
given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>):
Boolean {\n    return elements.isNotEmpty() && removeAll(elements.convertToSetForSetOperation())\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.\n
*/\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\n    return
retainAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Retains only elements of this
[MutableCollection] that are contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in
T>.retainAll(elements: Array<out T>): Boolean {\n    if (elements.isNotEmpty())\n        return
retainAll(elements.convertToSetForSetOperation())\n    else\n        return retainNothing()\n}\n\n/**\n * Retains only
elements of this [MutableCollection]
that are contained in the given [elements] sequence.\n */\npublic fun <T> MutableCollection<in
T>.retainAll(elements: Sequence<T>): Boolean {\n    val set = elements.convertToSetForSetOperation()\n    if
(set.isNotEmpty())\n        return retainAll(set)\n    else\n        return retainNothing()\n}\n\nprivate fun
MutableCollection<*>.retainNothing(): Boolean {\n    val result = isEmpty()\n    clear()\n    return
result\n}\n\n/**\n * Removes all elements from this [MutableIterable] that match the given [predicate].\n */\n *
@return `true` if any element was removed from this collection, or `false` when no elements were removed and
collection was not modified.\n */\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean):
Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableIterable] that match the
given [predicate].\n */\n * @return `true` if any element was removed from this collection, or `false` when all
elements were retained
and collection was not modified.\n */\npublic fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean):
Boolean = filterInPlace(predicate, false)\n\nprivate fun <T> MutableIterable<T>.filterInPlace(predicate: (T) ->
Boolean, predicateResultToRemove: Boolean): Boolean {\n    var result = false\n    with(iterator()) {\n        while
(hasNext())\n            if (predicate(next()) == predicateResultToRemove) {\n                remove()\n                result =
true\n            }\n    }\n    return result\n}\n\n/**\n * Removes the element at the specified [index] from this list.\n */
In Kotlin one should use the [MutableList.removeAt] function instead.\n */\n@Deprecated("Use removeAt(index)
instead.", ReplaceWith("removeAt(index)"), level =
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList<T>.remove(index:
Int): T = removeAt(index)\n\n/**\n * Removes the first element from this mutable list and returns that removed
element, or throws [NoSuchElementException]
if this list is empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
<T> MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(0)\n\n/**\n * Removes the first element from this mutable list and returns that removed element, or
returns `null` if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(lastIndex)\n\n/**\n * Removes the last element from this mutable list and returns that removed
element, or returns `null` if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n * Removes all
elements from this [MutableList] that match the given [predicate].\n */\n * @return `true` if any element was
removed from this collection, or `false` when no elements were removed and collection was not modified.\n

```

```

*/\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
true)\n\n/*\n * Retains only elements of this [MutableList] that match the given [predicate].\n * \n * @return `true`
if any element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n */\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T)
-> Boolean, predicateResultToRemove: Boolean): Boolean {\n    if (this !is RandomAccess)\n        return (this as
MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\n    var writeIndex: Int = 0\n    for
(readIndex in 0..lastIndex) {\n        val element = this[readIndex]\n        if (predicate(element) ==
predicateResultToRemove)\n            continue\n\n        if (writeIndex != readIndex)\n            this[writeIndex] =
element\n\n        writeIndex++\n    }\n    if (writeIndex < size) {\n        for (removeIndex in lastIndex downTo
writeIndex)\n            removeAt(removeIndex)\n\n        return true\n    } else {\n        return false\n    }\n}\n"/\n\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nprivate
open class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {\n    override val
size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n\n    override fun clear() = delegate.clear()\n    override fun removeAt(index:
Int): T = delegate.removeAt(reverseElementIndex(index))\n\n    override fun set(index: Int, element: T): T =
delegate.set(reverseElementIndex(index), element)\n    override fun add(index: Int, element: T) {\n        delegate.add(reversePositionIndex(index), element)\n    }\n}\n\nprivate fun List<*>.reverseElementIndex(index:
Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index
$index must be in
range [${0..lastIndex}].")\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n    if (index in 0..size) size -
index else throw IndexOutOfBoundsException("Position index $index must be in range [${0..size}].")\n\n\n/*\n * Returns a reversed read-only view of the original List.\n * All changes made in the original list will be reflected in
the reversed one.\n * @sample samples.collections.ReversedViews.asReversedList\n */\n\npublic fun <T>
List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n\n/*\n * Returns a reversed mutable view of the
original mutable List.\n * All changes made in the original list will be reflected in the reversed one and vice versa.\n
* @sample samples.collections.ReversedViews.asReversedMutableList\n
*/\n\n@kotlin.jvm.JvmName("asReversedMutable")\n\npublic fun <T> MutableList<T>.asReversed():
MutableList<T> = ReversedList(this)\n\n\n"/\n\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n@file:OptIn(Experimenta
lTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n\n/*\n * Builds a
[Sequence] lazily yielding values one by one.\n * \n * @see kotlin.sequences.generateSequence\n * \n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n */\n\n@SinceKotlin("1.3")\n\npublic fun <T>
sequence(@BuilderInference block: suspend SequenceScope<T>().() -> Unit): Sequence<T> = Sequence {
iterator(block) }\n\n\n@SinceKotlin("1.3")\n\n@Deprecated("Use 'sequence { }' function instead.",
ReplaceWith("sequence(builderAction)"), level =
DeprecationLevel.ERROR)\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
<T> buildSequence(@BuilderInference noinline builderAction: suspend SequenceScope<T>().() -> Unit):
Sequence<T> = Sequence { iterator(builderAction) }\n\n\n\n/*\n * Builds an [Iterator] lazily yielding values one by

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one.\n *\n * @sample samples.collections.Sequences.Building.buildIterator\n * @sample
samples.collections.Iterables.Building.iterable\n *\n@SinceKotlin("1.3")\npublic fun <T>
iterator(@BuilderInference block: suspend SequenceScope<T>().() -> Unit): Iterator<T> {\n    val iterator =
SequenceBuilderIterator<T>()\n    iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator,
completion = iterator)\n    return iterator\n}\n\n@SinceKotlin("1.3")\n@Deprecated("Use 'iterator { }' function
instead.", ReplaceWith("iterator(builderAction)"), level =
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildIterator(@BuilderInference
noinline builderAction: suspend SequenceScope<T>().() -> Unit): Iterator<T> = iterator(builderAction)\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator], provides [yield] and [yieldAll] suspension
functions.\n *\n * @see sequence\n * @see iterator\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n@RestrictsSuspension\n@SinceKotlin("1.3")\npublic abstract class SequenceScope<in T> internal
constructor() {\n    /**\n     * Yields a value to the [Iterator] being built and suspends\n     * until the next value is
requested.\n     *\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n     *\n     public abstract suspend fun yield(value:
T)\n     *\n     * Yields all values from the `iterator` to the [Iterator] being built\n     * and suspends until all these
values are iterated and the next one is requested.\n     *\n     * The sequence of values returned by the given
iterator can be potentially infinite.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     *\n     public abstract suspend fun
yieldAll(iterator: Iterator<T>)\n     *\n     * Yields a collections of values to the [Iterator] being built\n     * and
suspends until all these values are iterated and the next one is requested.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     *\n     public suspend fun yieldAll(elements:
Iterable<T>) {\n         if (elements is Collection && elements.isEmpty()) return\n         return
yieldAll(elements.iterator())\n     }\n     *\n     * Yields potentially infinite sequence of values to the [Iterator]
being built\n     * and suspends until all these values are iterated and the next one is requested.\n     *\n     * The
sequence can be potentially infinite.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     *\n     public suspend fun
yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())\n}\n\n@Deprecated("Use SequenceScope class
instead.", ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)\npublic typealias
SequenceBuilder<T> = SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady:
State = 0\n\nprivate const val State_ManyNotReady: State = 1\n\nprivate const val State_ManyReady: State =
2\n\nprivate const val State_Ready: State = 3\n\nprivate const val State_Done: State = 4\n\nprivate const val State_Failed:
State = 5\n\nprivate class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n    private var state = State_NotReady\n    private var nextValue: T? = null\n    private var nextIterator: Iterator<T>? =
null\n    var nextStep: Continuation<Unit>? = null\n\n    override fun hasNext(): Boolean {\n        while (true) {\n
            when (state) {\n                State_NotReady -> {}\n                State_ManyNotReady ->\n
                    if (nextIterator!!.hasNext()) {\n                        state = State_ManyReady\n                        return true\n
                    }\n                State_Done -> return false\n
                State_Ready, State_ManyReady -> return true\n                else -> throw exceptionalState()\n            }\n\n            state
= State_Failed\n            val step = nextStep!!\n            nextStep = null\n            step.resume(Unit)\n        }\n    }\n\n    override fun next(): T {\n        when (state) {\n            State_NotReady, State_ManyNotReady -> return
nextNotReady()\n            State_ManyReady -> {\n                state = State_ManyNotReady\n                return
nextIterator!!.next()\n            }\n            State_Ready -> {\n                state = State_NotReady\n
                @Suppress("UNCHECKED_CAST")\n                val result = nextValue as T\n                nextValue
= null\n                return result\n            }\n            else -> throw exceptionalState()\n        }\n    }\n\n    private fun
nextNotReady(): T {\n        if (!hasNext()) throw NoSuchElementException() else return next()\n    }\n\n    private
fun exceptionalState(): Throwable = when (state) {\n        State_Done -> NoSuchElementException()\n

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State_Failed -> IllegalStateException("Iterator has failed.")\n    else -> IllegalStateException("Unexpected state
of the iterator: $state")\n    }\n\n    override suspend fun yield(value: T) {\n        nextValue = value\n        state =
State_Ready\n        return suspendCoroutineUninterceptedOrReturn { c ->\n            nextStep = c\n            COROUTINE_SUSPENDED\n        }\n    }\n\n    override suspend fun yieldAll(iterator: Iterator<T>) {\n        if
(iterator.hasNext()) return\n        nextIterator = iterator\n        state = State_ManyReady\n        return
suspendCoroutineUninterceptedOrReturn { c ->\n            nextStep = c\n            COROUTINE_SUSPENDED\n        }\n    }\n\n    // Completion continuation
implementation\n    override fun resumeWith(result: Result<Unit>) {\n        result.getOrThrow() // just rethrow
exception if it is there\n        state = State_Done\n    }\n\n    override val context: CoroutineContext\n        get() =
EmptyCoroutineContext\n    }\n\n    /*\n    * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n    * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n    */\n\n    package kotlin.collections\n\n    internal fun checkWindowSizeStep(size: Int, step:
Int) {\n        require(size > 0 && step > 0) {\n            if (size != step)\n                \"Both size $size and step $step must be
greater than zero.\"\n            else\n                \"size $size must be greater than zero.\"\n        }\n    }\n\n    internal fun <T>
Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean):
Sequence<List<T>> {\n        checkWindowSizeStep(size, step)\n        return Sequence { windowedIterator(iterator(),
size, step, partialWindows, reuseBuffer) }\n    }\n\n    internal fun <T> windowedIterator(iterator: Iterator<T>, size: Int,
step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\n        if (!iterator.hasNext()) return
EmptyIterator\n        return iterator<List<T>> {\n            val bufferInitialCapacity = size.coerceAtMost(1024)\n            val
gap = step - size\n            if (gap >= 0) {\n                var buffer = ArrayList<T>(bufferInitialCapacity)\n                var skip =
0\n                for (e in iterator) {\n                    if (skip > 0) { skip -= 1; continue }\n                    buffer.add(e)\n                    if
(buffer.size == size) {\n                        yield(buffer)\n                        if (reuseBuffer) buffer.clear() else buffer =
ArrayList(size)\n                        skip = gap\n                    }\n                    if (buffer.isEmpty()) {\n                        if (partialWindows || buffer.size == size) yield(buffer)\n                    } else {\n                        var buffer =
RingBuffer<T>(bufferInitialCapacity)\n                        for (e in iterator) {\n                            buffer.add(e)\n                            if
(buffer.isFull()) {\n                                if (buffer.size < size) { buffer = buffer.expanded(maxCapacity = size); continue
}\n                                yield(if (reuseBuffer) buffer else ArrayList(buffer))\n                                buffer.removeFirst(step)\n                            }\n                        }\n                        if (partialWindows) {\n                            while (buffer.size > step) {\n                                yield(if
(reuseBuffer) buffer else ArrayList(buffer))\n                                buffer.removeFirst(step)\n                            }\n                            if
(buffer.isNotEmpty()) yield(buffer)\n                        }\n                    }\n                }\n            }\n\n            internal class MovingSubList<out E>(private val
list: List<E>) : AbstractList<E>(), RandomAccess {\n                private var fromIndex: Int = 0\n                private var _size:
Int = 0\n                fun move(fromIndex: Int, toIndex: Int) {\n                    checkRangeIndexes(fromIndex, toIndex, list.size)\n                    this.fromIndex = fromIndex\n                    this._size = toIndex - fromIndex\n                }\n                override fun get(index: Int): E {\n                    checkElementIndex(index, _size)\n                    return list[fromIndex + index]\n                }\n                override val size: Int\n                    get() =
_size\n            }\n\n            /*\n            * Provides ring buffer implementation.\n            * Buffer overflow is not allowed so [add] doesn't
overwrite tail but raises an exception.\n            */\n            private class RingBuffer<T>(private val buffer: Array<Any?>,
filledSize: Int) : AbstractList<T>(), RandomAccess {\n                init {\n                    require(filledSize >= 0) { \"ring buffer filled
size should not be negative but it is $filledSize\" }\n                    require(filledSize <= buffer.size) { \"ring buffer filled size:
$filledSize cannot be larger than the buffer size: ${buffer.size}\" }\n                }\n                constructor(capacity: Int) :
this(arrayOfNulls<Any?>(capacity), 0)\n                private
val capacity = buffer.size\n                private var startIndex: Int = 0\n                override var size: Int = filledSize\n                private
set\n                override fun get(index: Int): T {\n                    checkElementIndex(index, size)\n                    @Suppress(\"UNCHECKED_CAST\")\n                    return buffer[startIndex.forward(index)] as T\n                }\n                fun isFull() =
size == capacity\n                override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {\n                    private var count
= size\n                    private var index = startIndex\n                    override fun computeNext() {\n                        if (count == 0) {\n                            done()\n                        } else {\n                            @Suppress(\"UNCHECKED_CAST\")\n                            setNext(buffer[index] as
T)\n                            index = index.forward(1)\n                            count--\n                        }\n                    }\n                }\n                @Suppress(\"UNCHECKED_CAST\")\n                override fun <T> toArray(array: Array<T>): Array<T> {\n                    val

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result: Array<T?> =\n        if (array.size < this.size) array.copyOf(this.size)
else array as Array<T?>\n\n        val size = this.size\n        var widx = 0\n        var idx = startIndex\n        while
(widx < size && idx < capacity) {\n            result[widx] = buffer[idx] as T\n            widx++\n            idx++\n
}\n\n        idx = 0\n        while (widx < size) {\n            result[widx] = buffer[idx] as T\n            widx++\n
idx++\n        }\n        if (result.size > this.size) result[this.size] = null\n        return result as Array<T>\n    }\n\n    override fun toArray(): Array<Any?> {\n        return toArray(arrayOfNulls(size))\n    }\n\n    /**\n     * Creates a
new ring buffer with the capacity equal to the minimum of [maxCapacity] and 1.5 * [capacity].\n     * The returned
ring buffer contains the same elements as this ring buffer.\n     */\n    fun expanded(maxCapacity: Int):
RingBuffer<T> {\n        val newCapacity = (capacity + (capacity shr 1) + 1).coerceAtMost(maxCapacity)\n        val
newBuffer = if (startIndex
== 0) buffer.copyOf(newCapacity) else toArray(arrayOfNulls(newCapacity))\n        return RingBuffer(newBuffer,
size)\n    }\n\n    /**\n     * Add [element] to the buffer or fail with [IllegalStateException] if no free space available
in the buffer\n     */\n    fun add(element: T) {\n        if (isFull()) {\n            throw IllegalStateException("\ring buffer
is full")\n        }\n        buffer[startIndex.forward(size)] = element\n        size++\n    }\n\n    /**\n     * Removes [n]
first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to
remove\n     */\n    fun removeFirst(n: Int) {\n        require(n >= 0) {\n            "\n shouldn't be negative but it is $n"
}\n        require(n <= size) {\n            "\n shouldn't be greater than the buffer size: n = $n, size = $size"
}\n        if (n > 0) {\n            val start = startIndex\n            val end = start.forward(n)\n            if (start > end) {\n                buffer.fill(null,
start, capacity)\n                buffer.fill(null, 0, end)\n            } else {\n                buffer.fill(null, start, end)\n
}\n            startIndex = end\n            size -= n\n        }\n    }\n\n    @Suppress("NOTHING_TO_INLINE")\n    private inline fun Int.forward(n: Int): Int = (this + n) % capacity\n\n    /**\n     * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n     */\n\n    package kotlin.collections\n\n    // UByteArray
=====\n\n    @ExperimentalUnsignedTypes\n    private fun partition(\n        array: UByteArray, left: Int, right: Int): Int {\n        var i = left\n        var j = right\n        val pivot = array[(left + right) / 2]\n        while (i <= j) {\n            while (array[i] < pivot)\n                i++\n            while (array[j] > pivot)\n                j--\n            if (i <= j) {\n                val tmp = array[i]\n                array[i] = array[j]\n                array[j] = tmp\n                i++\n                j--\n            }\n        }\n        return i\n    }\n\n    @ExperimentalUnsignedTypes\n    private fun quickSort(\n        array: UByteArray, left:
Int, right: Int) {\n        val index = partition(array, left, right)\n        if (left < index - 1)\n            quickSort(array, left, index - 1)\n        if (index < right)\n            quickSort(array, index, right)\n    }\n\n    // UShortArray
=====\n\n    @ExperimentalUnsignedTypes\n    private fun partition(\n        array: UShortArray, left: Int, right: Int): Int {\n        var i = left\n        var j = right\n        val pivot = array[(left + right) / 2]\n        while (i <= j) {\n            while (array[i] < pivot)\n                i++\n            while (array[j] > pivot)\n                j--\n            if (i <= j) {\n                val tmp = array[i]\n                array[i] = array[j]\n                array[j] = tmp\n            }\n            i++\n            j--\n        }\n        return i\n    }\n\n    @ExperimentalUnsignedTypes\n    private fun quickSort(\n        array:
UShortArray, left: Int, right: Int) {\n        val index = partition(array, left, right)\n        if (left < index - 1)\n            quickSort(array, left, index - 1)\n        if (index < right)\n            quickSort(array, index, right)\n    }\n\n    // UIntArray
=====\n\n    @ExperimentalUnsignedTypes\n    private fun partition(\n        array: UIntArray, left: Int, right: Int): Int {\n        var i = left\n        var j = right\n        val pivot = array[(left + right) / 2]\n        while (i <= j) {\n            while (array[i] < pivot)\n                i++\n            while (array[j] > pivot)\n                j--\n            if (i <= j) {\n                val tmp = array[i]\n                array[i] = array[j]\n                array[j] = tmp\n                i++\n                j--\n            }\n        }\n        return i\n    }\n\n    @ExperimentalUnsignedTypes\n    private fun quickSort(\n        array:
UIntArray, left: Int, right: Int) {\n        val index = partition(array, left, right)\n        if (left < index - 1)\n            quickSort(array, left, index - 1)\n        if (index < right)\n            quickSort(array, index, right)\n    }\n\n    // ULongArray
=====\n\n    @ExperimentalUnsignedTypes\n    private fun partition(\n        array: ULongArray, left: Int, right: Int): Int {\n        var i = left\n        var j = right\n        val pivot = array[(left + right) / 2]\n        while (i <= j) {\n            while (array[i] < pivot)\n                i++\n            while (array[j] > pivot)\n                j--\n            if (i <= j) {\n                val tmp = array[i]\n                array[i] = array[j]\n                array[j] = tmp\n                i++\n                j--\n            }\n        }\n        return i\n    }\n\n    @ExperimentalUnsignedTypes\n    private fun quickSort(\n        array:
ULongArray, left: Int, right: Int) {\n        val index = partition(array, left, right)\n        if (left < index - 1)\n            quickSort(array, left, index - 1)\n        if (index < right)\n            quickSort(array, index, right)\n    }\n\n    // ULongArray
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erimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// Interfaces
=====*\n\n* Sorts the given array using qsort algorithm.\n*\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1)"\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Compares this object with the specified object for order. Returns zero if this object is equal\n * to the specified [other] object, a negative number if it's less than [other], or a positive number\n * if it's greater than [other].\n * This function delegates to [Comparable.compareTo] and allows to call it in infix form.\n */\n@InlineOnly\n@SinceKotlin("1.6")\npublic inline infix fun <T> Comparable<T>.compareTo(other: T): Int =\n    this.compareTo(other)\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature\n * when declaring contracts of user functions.\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `-Xopt-in=kotlin.contracts.ExperimentalContracts`.\n */\n\n@Suppress("DEPRECATION")\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/**\n * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to describe the contract of a function.\n * This type is used as a receiver type of the lambda function passed to the [contract] function.\n * @see contract\n */\n\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic interface ContractBuilder {\n\n    /**\n     * Describes a situation when a function returns normally, without any exceptions thrown.\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     */\n    fun sample()

    samples.contracts.returnsContract\n    @ContractsDsl\n    public fun returns(): Returns\n\n    /**\n     * Describes a situation when a function returns normally with the specified return [value].\n     * The possible values of [value] are limited to `true`, `false` or `null`.\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     */\n    fun sampleReturnsTrueContract\n\n    // @sample samples.contracts.returnsTrueContract\n    // @sample samples.contracts.returnsFalseContract\n    // @sample samples.contracts.returnsNullContract\n    @ContractsDsl\n    public fun returns(value: Any?): Returns\n\n    /**\n     * Describes a situation when a function returns normally with any value that is not `null`.\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     */\n    fun sampleReturnsNotNullContract\n\n    // @sample samples.contracts.returnsNotNullContract\n    // @sample samples.contracts.returnsNotNullContract\n    @ContractsDsl\n    public fun returnsNotNull(): ReturnsNotNull\n\n    /**\n     * Specifies that the function parameter [lambda] is invoked in place.\n     * This contract specifies

```

that:\n \* 1. the function [lambda] can only be invoked during the call of the owner function,\n \* and it won't be invoked after that owner function call is completed;\n \* 2. \_(optionally)\_ the function [lambda] is invoked the amount of times specified by the [kind] parameter,\n \* see the [InvocationKind] enum for possible values.\n \*\n \* A function declaring the `callsInPlace` effect must be \_inline\_.\n \*\n \*/\n @sample samples.contracts.callsInPlaceAtMostOnceContract\n @sample samples.contracts.callsInPlaceAtLeastOnceContract\n @sample samples.contracts.callsInPlaceExactlyOnceContract\n @sample samples.contracts.callsInPlaceUnknownContract\n\n \*\n @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/\*\*\n \* Specifies how many times a function invokes its function parameter in place.\n \*\n \* See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.\n \*\n @ContractsDsl\n @ExperimentalContracts\n @SinceKotlin("1.3")\n\n public enum class InvocationKind {\n\n /\*\*\n \* A function parameter will be invoked one time or not invoked at all.\n \*\n // @sample samples.contracts.callsInPlaceAtMostOnceContract\n @ContractsDsl AT\_MOST\_ONCE,\n\n /\*\*\n \* A function parameter will be invoked one or more times.\n \*\n // @sample samples.contracts.callsInPlaceAtLeastOnceContract\n @ContractsDsl AT\_LEAST\_ONCE,\n\n /\*\*\n \* A function parameter will be invoked exactly one time.\n \*\n // @sample samples.contracts.callsInPlaceExactlyOnceContract\n\n @ContractsDsl EXACTLY\_ONCE,\n\n /\*\*\n \* A function parameter is called in place, but it's unknown how many times it can be called.\n \*\n // @sample samples.contracts.callsInPlaceUnknownContract\n\n @ContractsDsl UNKNOWN\n}\n\n/\*\*\n \* Specifies the contract of a function.\n \*\n \* The contract description must be at the beginning of a function and have at least one effect.\n \*\n \* Only the top-level functions can have a contract for now.\n \*\n \* @param builder the lambda where the contract of a function is described with the help of the [ContractBuilder] members.\n \*\n \*/\n @sample samples.contracts.returnsContract\n @sample samples.contracts.returnsTrueContract\n @sample samples.contracts.returnsFalseContract\n @sample samples.contracts.returnsNullContract\n @sample samples.contracts.returnsNotNullContract\n @sample samples.contracts.callsInPlaceAtMostOnceContract\n @sample samples.contracts.callsInPlaceAtLeastOnceContract\n @sample samples.contracts.callsInPlaceExactlyOnceContract\n\n @sample samples.contracts.callsInPlaceUnknownContract\n\n @ContractsDsl\n @ExperimentalContracts\n @InlineOnly\n\n @SinceKotlin("1.3")\n\n @Suppress("UNUSED\_PARAMETER")\n\n public inline fun contract(builder: ContractBuilder.() -> Unit) { }\n\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n package kotlin.coroutines\n\n\n /\*\*\n \* Marks coroutine context element that intercepts coroutine continuations.\n \* The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\n \* intercepts all coroutine continuations with [interceptContinuation] invocations.\n \*\n \* [ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that\n \* its implementation delegates [get][CoroutineContext.Element.get] and [minusKey][CoroutineContext.Element.minusKey]\n \* to [getPolymorphicElement] and [minusPolymorphicKey] respectively.\n \* [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either [ContinuationInterceptor.Key]\n \* or subtype key if it extends [AbstractCoroutineContextKey].\n \*\n @SinceKotlin("1.3")\n\n public interface ContinuationInterceptor : CoroutineContext.Element {\n\n /\*\*\n \* The key that defines \*the\* context interceptor.\n \*\n companion object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n /\*\*\n \* Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n \* This function is invoked by coroutines framework when needed and the resulting continuations are\n \* cached internally per each instance of the original [continuation].\n \*\n \* This function may simply return original [continuation] if it does not want to intercept

```

this particular continuation.\n    *\n    * When the original [continuation]
completes, coroutine framework invokes [releaseInterceptedContinuation]\n    * with the resulting continuation if it
was intercepted, that is if `interceptContinuation` had previously\n    * returned a different continuation instance.\n
*/\n    public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>{\n\n    /**\n    *
Invoked for the continuation instance returned by [interceptContinuation] when the original\n    * continuation
completes and will not be used anymore. This function is invoked only if [interceptContinuation]\n    * had returned
a different continuation instance from the one it was invoked with.\n    *\n    * Default implementation does
nothing.\n    *\n    * @param continuation Continuation instance returned by this interceptor's
[interceptContinuation] invocation.\n    */\n    public fun releaseInterceptedContinuation(continuation:
Continuation<*>) {\n        /* do nothing by default */\n    }\n\n    public override operator
fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? {\n        // getPolymorphicKey
specialized for ContinuationInterceptor key\n        @OptIn(ExperimentalStdlibApi::class)\n        if (key is
AbstractCoroutineContextKey<*, *>) {\n            @Suppress("\UNCHECKED_CAST")\n            return if
(key.isSubKey(this.key)) key.tryCast(this) as? E else null\n        }\n        @Suppress("\UNCHECKED_CAST")\n
return if (ContinuationInterceptor === key) this as E else null\n    }\n\n    public override fun minusKey(key:
CoroutineContext.Key<*>): CoroutineContext {\n        // minusPolymorphicKey specialized for
ContinuationInterceptor key\n        @OptIn(ExperimentalStdlibApi::class)\n        if (key is
AbstractCoroutineContextKey<*, *>) {\n            return if (key.isSubKey(this.key) && key.tryCast(this) != null)
EmptyCoroutineContext else this\n        }\n        return if (ContinuationInterceptor === key)
EmptyCoroutineContext else this\n    }\n}\n"/\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines\n\n/**\n * Persistent context for the coroutine. It is an indexed set of [Element] instances.\n * An
indexed set is a mix between a set and a map.\n * Every element in this set has a unique [Key].\n
*/\n\n@SinceKotlin("\1.3")\npublic interface CoroutineContext {\n    /**\n    * Returns the element with the given
[key] from this context or `null`.\n    */\n    public operator fun <E : Element> get(key: Key<E>): E?\n\n    /**\n
 * Accumulates entries of this context starting with [initial] value and applying [operation]\n    * from left to right to
current accumulator value and each element of this context.\n    */\n    public fun <R> fold(initial: R, operation: (R,
Element) -> R): R\n\n    /**\n    * Returns a context containing elements from this
context and elements from other [context].\n    * The elements from this context with the same key as in the other
one are dropped.\n    */\n    public operator fun plus(context: CoroutineContext): CoroutineContext =\n        if
(context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n            context.fold(this) {
acc, element ->\n                val removed = acc.minusKey(element.key)\n                if (removed ===
EmptyCoroutineContext) element else {\n                    // make sure interceptor is always last in the context (and thus
is fast to get when present)\n                    val interceptor = removed[ContinuationInterceptor]\n                    if
(interceptor == null) CombinedContext(removed, element) else {\n                        val left =
removed.minusKey(ContinuationInterceptor)\n                        if (left === EmptyCoroutineContext)\n                            CombinedContext(element, interceptor) else\n                                CombinedContext(CombinedContext(left,
element), interceptor)\n                    }\n                }\n            }\n\n    /**\n    * Returns a context containing elements
from this context, but without an element with\n    * the specified [key].\n    */\n    public fun minusKey(key:
Key<*>): CoroutineContext\n\n    /**\n    * Key for the elements of [CoroutineContext]. [E] is a type of element
with this key.\n    */\n    public interface Key<E : Element>{\n        /**\n        * An element of the [CoroutineContext].
An element of the coroutine context is a singleton context by itself.\n        */\n        public interface Element :
CoroutineContext {\n            /**\n            * A key of this coroutine context element.\n            */\n            public val key:
Key<*>\n\n            public override operator fun <E : Element> get(key: Key<E>): E? =\n                @Suppress("\UNCHECKED_CAST")\n                if (this.key == key) this as E else null\n            public override fun
<R> fold(initial: R, operation: (R, Element) -> R):

```

```

R =\n      operation(initial, this)\n      public override fun minusKey(key: Key<*>): CoroutineContext =\n      if (this.key == key) EmptyCoroutineContext else this\n    }\n}\n"/\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.CoroutineContext.Element\n\nimport kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class
for [CoroutineContext.Element] implementations.\n */\n\n@SinceKotlin("1.3")\npublic abstract class
AbstractCoroutineContextElement(public override val key: Key<*>) : Element\n\n/**\n * Base class for
[CoroutineContext.Key] associated with polymorphic [CoroutineContext.Element] implementation.\n */\n
Polymorphic element implementation implies delegating its [get][Element.get] and
[minusKey][Element.minusKey]\n * to [getPolymorphicElement] and
[minusPolymorphicKey] respectively.\n */\n * Polymorphic elements can be extracted from the coroutine context
using both element key and its supertype key.\n * Example of polymorphic elements:\n * ```\n * open class
BaseElement : CoroutineContext.Element {\n *     companion object Key : CoroutineContext.Key<BaseElement>\n *
    override val key: CoroutineContext.Key<*> get() = Key\n *     // It is important to use getPolymorphicKey and
minusPolymorphicKey\n *     override fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):
E? = getPolymorphicElement(key)\n *     override fun minusKey(key: CoroutineContext.Key<*>):
CoroutineContext = minusPolymorphicKey(key)\n * }\n */\n * class DerivedElement : BaseElement() {\n *
    companion object Key : AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as?
DerivedElement })\n * }\n * // Now it is possible to query both `BaseElement` and `DerivedElement`\n *
someContext[BaseElement] // Returns BaseElement?,
non-null both for BaseElement and DerivedElement instances\n * someContext[DerivedElement] // Returns
DerivedElement?, non-null only for DerivedElement instance\n * ```\n * @param B base class of a polymorphic
element\n * @param baseKey an instance of base key\n * @param E element type associated with the current key\n
* @param safeCast a function that can safely cast abstract [CoroutineContext.Element] to the concrete [E] type\n
*
and return the element if it is a subtype of [E] or `null` otherwise.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic abstract class AbstractCoroutineContextKey<B :
Element, E : B>(\n    baseKey: Key<B>,\n    private val safeCast: (element: Element) -> E?) : Key<E> {\n
    private val topmostKey: Key<*> = if (baseKey is AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else
baseKey\n\n    internal fun tryCast(element: Element): E? = safeCast(element)\n    internal fun isSubKey(key:
Key<*>): Boolean = key === this || topmostKey
=== key\n}\n\n/**\n * Returns the current element if it is associated with the given [key] in a polymorphic manner
or `null` otherwise.\n * This method returns non-null value if either [Element.key] is equal to the given [key] or if
the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <E : Element>
Element.getPolymorphicElement(key: Key<E>): E? {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n
        @Suppress("UNCHECKED_CAST")\n        return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n
    }\n    @Suppress("UNCHECKED_CAST")\n    return if (this.key === key) this as E else null\n}\n\n/**\n * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or `null` otherwise.\n * This method returns empty context if either [Element.key] is equal to the given
[key] or if the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Element.minusPolymorphicKey(key: Key<*>):
CoroutineContext {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n        return if (key.isSubKey(this.key)
&& key.tryCast(this) != null) EmptyCoroutineContext else this\n    }\n    return if (this.key === key)
EmptyCoroutineContext else this\n}\n\n/**\n * An empty coroutine context.\n */\n\n@SinceKotlin("1.3")\npublic
object EmptyCoroutineContext : CoroutineContext, Serializable {\n    private const val serialVersionUID: Long =
0\n    private fun readResolve(): Any = EmptyCoroutineContext\n\n    public override fun <E : Element> get(key:

```

```

Key<E>(): E? = null\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n public
override fun plus(context: CoroutineContext): CoroutineContext
= context\n public override fun minusKey(key: Key<*>): CoroutineContext = this\n public override fun
hashCode(): Int = 0\n public override fun toString(): String = "EmptyCoroutineContext"\n\n//-----
- internal impl -----\n\n// this class is not exposed, but is hidden inside implementations\n// this is a left-
biased list, so that `plus` works naturally\n@SinceKotlin("1.3")\ninternal class CombinedContext(\n private val
left: CoroutineContext,\n private val element: Element\n) : CoroutineContext, Serializable {\n\n override fun <E
: Element> get(key: Key<E>): E? {\n var cur = this\n while (true) {\n cur.element[key]?.let { return
it }\n val next = cur.left\n if (next is CombinedContext) {\n cur = next\n } else {\n
return next[key]\n }\n }\n }\n\n public override fun <R> fold(initial: R, operation: (R, Element) -
> R): R =\n
operation(left.fold(initial, operation), element)\n\n public override fun minusKey(key: Key<*>):
CoroutineContext {\n element[key]?.let { return left }\n val newLeft = left.minusKey(key)\n return
when {\n newLeft === left -> this\n newLeft === EmptyCoroutineContext -> element\n else ->
CombinedContext(newLeft, element)\n }\n }\n\n private fun size(): Int {\n var cur = this\n var size
= 2\n while (true) {\n cur = cur.left as? CombinedContext?: return size\n size++\n }\n }\n\n private fun
contains(element: Element): Boolean =\n get(element.key) == element\n\n private fun
containsAll(context: CombinedContext): Boolean {\n var cur = context\n while (true) {\n if
(!contains(cur.element)) return false\n val next = cur.left\n if (next is CombinedContext) {\n
cur = next\n } else
{\n return contains(next as Element)\n }\n }\n }\n\n override fun equals(other: Any?):
Boolean =\n this === other || other is CombinedContext && other.size() == size() &&
other.containsAll(this)\n\n override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n override
fun toString(): String =\n "[" + fold("") { acc, element ->\n if (acc.isEmpty()) element.toString() else
"$acc, $element"\n } + "]" \n\n private fun writeReplace(): Any {\n val n = size()\n val elements =
arrayOfNulls<CoroutineContext>(n)\n var index = 0\n fold(Unit) { _, element -> elements[index++] =
element }\n check(index == n)\n @Suppress("UNCHECKED_CAST")\n return Serialized(elements
as Array<CoroutineContext>)\n }\n\n private class Serialized(val elements: Array<CoroutineContext>) :
Serializable {\n companion object {\n private const val serialVersionUID:
Long = 0L\n }\n\n private fun readResolve(): Any = elements.fold(EmptyCoroutineContext,
CoroutineContext::plus)\n }\n}\n\n/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("IntrinsicsKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.coroutines.intrinsics\n\nimport kotlin.contracts.*\nimport kotlin.coroutines.*\nimport
kotlin.internal.InlineOnly\n\n/**\n * Obtains the current continuation instance inside suspend functions and either
suspends\n * currently running coroutine or returns result immediately without suspension.\n * If the [block]
returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution
and will\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\n
* resumed by invoking [Continuation.resumeWith] at some moment in the\n * future when the result becomes
available to resume the computation.\n * Otherwise, the return value of the [block] must have a type assignable
to [T] and represents the result of this suspend function.\n * It means that the execution was not suspended and the
[Continuation] provided to the [block] shall not be invoked.\n * As the result type of the [block] is declared as
`Any?` and cannot be correctly type-checked,\n * its proper return type remains on the conscience of the suspend
function's author.\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's
thread without going through the\n * [ContinuationInterceptor] that might be present in the coroutine's
[CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n
* [Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Note that

```

it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current continuation instance.

```
*\n@SinceKotlin("1.3")\n@InlineOnly\n@Suppress("UNUSED_PARAMETER",  
"RedundantSuspensionModifier")\npublic suspend inline fun <T>  
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n        throw NotImplementedError("Implementation of  
suspendCoroutineUninterceptedOrReturn is intrinsic")\n    }\n    * This value is used as a return value of  
[suspendCoroutineUninterceptedOrReturn] `block` argument to state that the execution was suspended and will  
not return any result immediately.\n    * **Note: this value should not be used in general code.** Using it outside  
of the context of `suspendCoroutineUninterceptedOrReturn`  
function return value (including, but not limited to, storing this value in other properties, returning it from other  
functions, etc) can lead to unspecified behavior of the code.\n    *// It is implemented as property with getter to  
avoid ProGuard <clint> problem with multifile IntrinsicsKt class\n@SinceKotlin("1.3")\npublic val  
COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED\n// Using enum  
here ensures two important properties:\n// 1. It makes SafeContinuation serializable with all kinds of serialization  
frameworks (since all of them natively support enums)\n// 2. It improves debugging experience, since you clearly  
see toString() value of those objects and what package they come from\n@SinceKotlin("1.3")\n@PublishedApi //  
This class is Published API via serialized representation of SafeContinuation, don't rename/move\ninternal enum  
class CoroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\n"/*\n * Copyright  
2010-2018
```

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```
\npackage kotlin.experimental\n/**  
Performs a bitwise AND operation between the two values.
```

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.and(other: Byte): Byte =  
(this.toInt() and other.toInt()).toByte()\n/** Performs a bitwise OR operation between the two values.
```

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.or(other: Byte): Byte =  
(this.toInt() or other.toInt()).toByte()\n/** Performs a bitwise XOR operation between the two values.
```

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.xor(other: Byte): Byte =  
(this.toInt() xor other.toInt()).toByte()\n/** Inverts the bits in this value.
```

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte =  
(this.toInt().inv()).toByte()\n/**
```

Performs a bitwise AND operation between the two values.

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short =  
(this.toInt() and other.toInt()).toShort()\n/** Performs a bitwise OR operation between the two values.
```

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short =  
(this.toInt() or other.toInt()).toShort()\n/** Performs a bitwise XOR operation between the two values.
```

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short =  
(this.toInt() xor other.toInt()).toShort()\n/** Inverts the bits in this value.
```

```
\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short =  
(this.toInt().inv()).toShort()\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language  
contributors. Use of this source code is governed by the Apache
```

```
2.0 license that can be found in the license/LICENSE.txt file.\npackage kotlin.experimental\n/**\n * The experimental marker for type inference augmenting annotations.\n * Any usage of a declaration annotated with  
`@ExperimentalTypeInference` must be accepted either by annotating that usage with the [OptIn] annotation,  
e.g. `@OptIn(ExperimentalTypeInference::class)` or by using the compiler argument `-Xopt-  
in=kotlin.experimental.ExperimentalTypeInference`.  
*\n@Suppress("DEPRECATION")\n@Experimental(level =  
= Experimental.Level.ERROR)\n@RequiresOptIn(level =
```



RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION\_CLASS)\n@SinceKotlin("1.3")\npublic annotation class ExperimentalTypeInference\n"/\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

\*\n\npackage kotlin.internal\n\n/\*\*\n \* Specifies that the corresponding type should be ignored during type inference.\n \*\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class NoInfer\n\n/\*\*\n \* Specifies that the constraint built for the type during type inference should be an equality one.\n \*\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class Exact\n\n/\*\*\n \* Specifies that a corresponding member has the lowest priority in overload resolution.\n \*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class LowPriorityInOverloadResolution\n\n/\*\*\n \* Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n \* an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n \*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class HidesMembers\n\n/\*\*\n \* The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n \*\n@Target(AnnotationTarget.TYPE\_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class OnlyInputTypes\n\n/\*\*\n \* Specifies that this function should not be called directly without inlining\n \*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY\_GETTER, AnnotationTarget.PROPERTY\_SETTER)\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class InlineOnly\n\n/\*\*\n \* Specifies that this declaration can have dynamic receiver type.\n \*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n\ninternal annotation class DynamicExtension\n\n/\*\*\n \* The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,\n \* the backing field of which is accessible at the point where the corresponding argument is passed.\n \*\n@Target(AnnotationTarget.VALUE\_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n\n@SinceKotlin("1.2")\n\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/\*\*\n \* Specifies that this declaration is only completely supported since the specified version.\n \*\n \* The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\n \* The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\n \* to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\n \* is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\n \*\n \* [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\n \* Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE\_VERSION] was supported, so the Kotlin compiler before 1.2 is going to\n \* treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\n \* [RequireKotlinVersionKind.LANGUAGE\_VERSION], [RequireKotlinVersionKind.COMPILER\_VERSION] and [RequireKotlinVersionKind.API\_VERSION].\n \* If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n \* Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement\n \* on the language version.\n \*\n \* This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\n \*\n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR,

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AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin("1.2")\ninternal
annotation class RequireKotlin(\n    val version: String,\n    val message: String = "",\n    val level:
DeprecationLevel = DeprecationLevel.ERROR,\n    val versionKind: RequireKotlinVersionKind =
RequireKotlinVersionKind.LANGUAGE_VERSION,\n    val errorCode: Int = -1)\n\n/**\n * The kind of the
version that is required by [RequireKotlin].\n */\n@SinceKotlin("1.2")\ninternal enum class
RequireKotlinVersionKind {\n    LANGUAGE_VERSION,\n    COMPILER_VERSION,\n    API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing
function's contract.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\ninternal annotation
class ContractsDsl\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage
kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard property delegates.\n */\n\npublic object
Delegates {\n    /**\n     * Returns a property delegate for a read/write property with a non-`null` value that is
initialized not during\n     * object construction time but at a later time. Trying to read the property before the initial
value has been\n     * assigned results in an exception.\n     */\n     * @sample
samples.properties.Delegates.notNullDelegate\n     */\n     public fun <T : Any> notNull():
ReadWriteProperty<Any?, T> = NotNullVar()\n\n    /**\n     * Returns a property delegate for a read/write property
that calls a specified callback function when changed.\n     * @param initialValue the initial value of the property.\n     * @param onChange the callback which is called after the change of the property is made. The value of the
property\n     * has already been changed when this callback is invoked.\n     */\n     * @sample
samples.properties.Delegates.observableDelegate\n     */\n     public inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>,\noldValue: T, newValue: T) -> Unit):\n     ReadWriteProperty<Any?, T> =\n     object :
ObservableProperty<T>(initialValue) {\n         override fun afterChange(property: KProperty<*>, oldValue: T,\nnewValue: T) = onChange(property, oldValue, newValue)\n     }\n\n    /**\n     * Returns a property delegate for a
read/write property that calls a specified callback function when changed,\n     * allowing the callback to veto the
modification.\n     * @param initialValue the initial value of the property.\n     * @param onChange the callback
which is called before a change to the property value is attempted.\n     * The value of the property hasn't been
changed yet, when this callback is invoked.\n     * If the callback returns `true` the value of the property is being set
to the new value,\n     * and if the callback returns `false` the
new value is discarded and the property remains its old value.\n     */\n     * @sample
samples.properties.Delegates.vetoableDelegate\n     */\n     * @sample
samples.properties.Delegates.throwVetoableDelegate\n     */\n     public inline fun <T> vetoable(initialValue: T,\ncrossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\n     ReadWriteProperty<Any?, T> =\n     object : ObservableProperty<T>(initialValue) {\n         override fun
beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,\nnewValue)\n     }\n\n    private class NotNullVar<T : Any>(): ReadWriteProperty<Any?, T> {\n        private var
value: T? = null\n        public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\n            return value
?: throw IllegalStateException("Property ${property.name} should be initialized before get.")\n        }\n        public
override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n            this.value = value\n        }\n    }\n\n    /**\n     * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n     */\n\n    package kotlin.properties\n\n    import kotlin.reflect.KProperty\n\n    /**\n     * Base
interface that can be used for implementing property delegates of read-only properties.\n     */\n     * This is provided only
for convenience; you don't have to extend this interface\n     * as long as your property delegate has methods with the
same signatures.\n     */\n     * @param T the type of object which owns the delegated property.\n     * @param V the type of
the property value.\n     */\n     * @public fun interface ReadOnlyProperty<in T, out V> {\n         /**\n          * Returns the value of

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the property for the given object.\n * @param thisRef the object for which the value is requested.\n * @param
property the metadata for the property.\n * @return the property value.\n
*/\n public operator fun getValue(thisRef: T, property: KProperty<*>): V\n\n/**\n * Base interface that can
be used for implementing property delegates of read-write properties.\n *\n * This is provided only for convenience;
you don't have to extend this interface\n * as long as your property delegate has methods with the same signatures.\n
*\n * @param T the type of object which owns the delegated property.\n * @param V the type of the property
value.\n */\npublic interface ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {\n /**\n * Returns the
value of the property for the given object.\n * @param thisRef the object for which the value is requested.\n *
@param property the metadata for the property.\n * @return the property value.\n */\n public override
operator fun getValue(thisRef: T, property: KProperty<*>): V\n\n /**\n * Sets the value of the property for the
given object.\n * @param thisRef the object for which the value is requested.\n
* @param property the metadata for the property.\n * @param value the value to set.\n */\n public
operator fun setValue(thisRef: T, property: KProperty<*>, value: V)\n\n\n/**\n * Base interface that can be used
for implementing property delegate providers.\n *\n * This is provided only for convenience; you don't have to
extend this interface\n * as long as your delegate provider has a method with the same signature.\n *\n * @param T
the type of object which owns the delegated property.\n * @param D the type of property delegates this provider
provides.\n */\n@SinceKotlin("1.4")\npublic fun interface PropertyDelegateProvider<in T, out D> {\n /**\n *
Returns the delegate of the property for the given object.\n *\n * This function can be used to extend the logic
of creating the object (e.g. perform validation checks)\n * to which the property implementation is delegated.\n
*\n * @param thisRef the object for which property delegate is requested.\n
* @param property the metadata for the property.\n * @return the property delegate.\n */\n public
operator fun provideDelegate(thisRef: T, property: KProperty<*>): D\n\n\n"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport
kotlin.reflect.KProperty\n\n/**\n * Implements the core logic of a property delegate for a read/write property that
calls callback functions when changed.\n * @param initialValue the initial value of the property.\n */\npublic
abstract class ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {\n private var value =
initialValue\n\n /**\n * The callback which is called before a change to the property value is attempted.\n *
The value of the property hasn't been changed yet, when this callback is invoked.\n *
If the callback returns `true` the value of the property is being set to the new value.\n * and if the callback returns
`false` the new value is discarded and the property remains its old value.\n */\n protected open fun
beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true\n\n /**\n * The callback
which is called after the change of the property is made. The value of the property\n * has already been changed
when this callback is invoked.\n */\n protected open fun afterChange(property: KProperty<*>, oldValue: V,
newValue: V): Unit { }\n\n public override fun getValue(thisRef: Any?, property: KProperty<*>): V {\n
return value\n }\n\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n val
oldValue = this.value\n if (!beforeChange(property, oldValue, value)) {\n return\n }\n this.value
= value\n afterChange(property, oldValue, value)\n }\n\n"/*\n
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:Suppress("PackageDirectoryMismatch")\npackage kotlin\n\nimport kotlin.reflect.*\n\n/**\n * An
extension operator that allows delegating a read-only property of type [V]\n * to a property reference to a property
of type [V] or its subtype.\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or
its subtype.\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the
receiver bound to it.\n *\n * Example:\n *\n * ```\n * class Login(val username: String)\n * val defaultLogin =
Login("Admin")\n * val defaultUsername by defaultLogin::username\n * // equivalent to\n * val defaultUserName
get() = defaultLogin.username\n * ```\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline

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operator fun <V> KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n    return
get()\n}\n\n/**\n * An extension operator that allows delegating a mutable property of type [V]\n * to a property
reference to a mutable property of the same type [V].\n *\n * @receiver A property reference to a mutable property
of type [V].\n *\n * The reference is without a receiver, i.e. it either references a top-level property or\n
*\n * has the receiver bound to it.\n *\n * Example:\n *\n * ```\n * class Login(val username: String, var
incorrectAttemptCounter: Int = 0)\n * val defaultLogin = Login("Admin")\n * var defaultLoginAttempts by
defaultLogin::incorrectAttemptCounter\n * // equivalent to\n * var defaultLoginAttempts: Int\n *     get() =
defaultLogin.incorrectAttemptCounter\n *     set(value) { defaultLogin.incorrectAttemptCounter = value }\n * ```\n
*\n * @SinceKotlin("1.4")\n * @kotlin.internal.InlineOnly\n * public inline operator fun <V>
KMutableProperty0<V>.setValue(thisRef: Any?,
property: KProperty<*>, value: V) {\n    set(value)\n}\n\n\n/**\n * An extension operator that allows delegating a
read-only member or extension property of type [V]\n * to a property reference to a member or extension property
of type [V] or its subtype.\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or
its subtype.\n *\n * The reference has an unbound receiver of type [T].\n *\n * Example:\n *\n * ```\n * class Login(val
username: String)\n * val Login.user by Login::username\n * // equivalent to\n * val Login.user get() =
this.username\n * ```\n * \n * @SinceKotlin("1.4")\n * @kotlin.internal.InlineOnly\n * public inline operator fun <T, V>
KProperty1<T, V>.getValue(thisRef: T, property: KProperty<*>): V {\n    return get(thisRef)\n}\n\n\n/**\n * An
extension operator that allows delegating a mutable member or extension property of type [V]\n * to a property
reference to a member or extension mutable property of the same type [V].\n *\n * @receiver A property
reference to a read-only or mutable property of type [V] or its subtype.\n *\n * The reference has an unbound receiver
of type [T].\n *\n * Example:\n *\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int)\n *
var Login.attempts by Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n *     get() =
this.incorrectAttemptCounter\n *     set(value) { this.incorrectAttemptCounter = value }\n * ```\n
*\n * \n * @SinceKotlin("1.4")\n * @kotlin.internal.InlineOnly\n * public inline operator fun <T, V> KMutableProperty1<T,
V>.setValue(thisRef: T, property: KProperty<*>, value: V) {\n    set(thisRef, value)\n}", /*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n * \n * package kotlin.random\n * \n * import
kotlin.math.nextDown\n * \n * /**\n * An abstract class that is implemented by random number generator algorithms.\n
*\n * The companion object [Random.Default] is the default instance of [Random].\n *\n * To get a seeded instance
of random generator use [Random] function.\n *\n * @sample samples.random.Randoms.defaultRandom\n
*\n * @SinceKotlin("1.3")\n * public abstract class Random {\n\n    /**\n     * Gets the next random [bitCount] number
of bits.\n     *\n     * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining
upper bits are zero.\n     *\n     * @param bitCount number of bits to generate, must be in range 0..32, otherwise the
behavior is unspecified.\n     *\n     * @sample samples.random.Randoms.nextBits\n     * \n     * public abstract fun
nextBits(bitCount: Int): Int\n\n     /**\n     * Gets the next random `Int` from the random number generator.\n     *\n
     * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE`
(inclusive).\n     *\n     * @sample samples.random.Randoms.nextInt\n     * \n     * public
open fun nextInt(): Int = nextBits(32)\n\n     /**\n     * Gets the next random non-negative `Int` from the random
number generator less than the specified [until] bound.\n     *\n     * Generates an `Int` random value uniformly
distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n     *\n     * @param until must be
positive.\n     *\n     * @throws IllegalArgumentException if [until] is negative or zero.\n     *\n     * @sample
samples.random.Randoms.nextIntFromUntil\n     * \n     * public open fun nextInt(until: Int): Int = nextInt(0, until)\n\n
     /**\n     * Gets the next random `Int` from the random number generator in the specified range.\n     *\n     *
Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until]
(exclusive) bounds.\n     *\n     * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
     *\n     * @sample samples.random.Randoms.nextIntFromUntil\n     * \n     * \n     * public open fun nextInt(from: Int, until: Int): Int {\n        checkRangeBounds(from, until)\n        val n = until -
from\n        if (n > 0 || n == Int.MIN_VALUE) {\n            val rnd = if (n and -n == n) {\n                val bitCount =

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fastLog2(n)\n      nextBits(bitCount)\n    } else {\n      var v: Int\n      do {\n        val bits = nextInt().ushr(1)\n        v = bits % n\n      } while (bits - v + (n - 1) < 0)\n      v\n    }\n    return from + rnd\n  } else {\n    while (true) {\n      val rnd = nextInt()\n      if (rnd in from until until) return rnd\n    }\n  }\n} /**\n * Gets the next random `Long` from the random number generator.\n * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n * @sample samples.random.Randoms.nextLong\n\n*/\n public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n /**\n * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\n * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n * @param until must be positive.\n * @throws IllegalArgumentException if [until] is negative or zero.\n * @sample samples.random.Randoms.nextLongFromUntil\n\n*/\n public open fun nextLong(until: Long): Long = nextLong(0, until)\n /**\n * Gets the next random `Long` from the random number generator in the specified range.\n * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n * @sample samples.random.Randoms.nextLongFromUntil\n\n*/\n public open fun nextLong(from: Long, until: Long): Long {\n  checkRangeBounds(from, until)\n  val n = until - from\n  if (n > 0) {\n    val rnd: Long\n    if (n and -n == n) {\n      val nLow = n.toInt()\n      val nHigh = (n ushr 32).toInt()\n      rnd = when {\n        nLow != 0 -> {\n          val bitCount = fastLog2(nLow)\n          // toUInt().toLong()\n          nextBits(bitCount).toLong() and 0xFFFF_FFFF\n        }\n        nHigh == 1 -> {\n          // toUInt().toLong()\n          nextInt().toLong() and 0xFFFF_FFFF\n        }\n        else -> {\n          val bitCount = fastLog2(nHigh)\n          nextBits(bitCount).toLong().shl(32) + (nextInt().toLong() and 0xFFFF_FFFF)\n        }\n      }\n    } else {\n      var v: Long\n      do {\n        val bits = nextLong().ushr(1)\n        v = bits % n\n      } while (bits - v + (n - 1) < 0)\n      rnd = v\n    }\n    return from + rnd\n  } else {\n    while (true) {\n      val rnd = nextLong()\n      if (rnd in from until until) return rnd\n    }\n  }\n}\n /**\n * Gets the next random [Boolean] value.\n * @sample samples.random.Randoms.nextBoolean\n\n*/\n public open fun nextBoolean(): Boolean = nextBits(1) != 0\n /**\n * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n * @sample samples.random.Randoms.nextDouble\n\n*/\n public open fun nextDouble(): Double = doubleFromParts(nextBits(26), nextBits(27))\n /**\n * Gets the next random non-negative `Double` from the random number generator less than the specified [until] bound.\n * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).\n * @throws IllegalArgumentException if [until] is negative or zero.\n * @sample samples.random.Randoms.nextDoubleFromUntil\n\n*/\n public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\n /**\n * Gets the next random `Double` from the random number generator in the specified range.\n * Generates a `Double` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n * [from] and [until] must be finite otherwise the behavior is unspecified.\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n * @sample samples.random.Randoms.nextDoubleFromUntil\n\n*/\n public open fun nextDouble(from: Double, until: Double): Double {\n  checkRangeBounds(from, until)\n  val size = until - from\n  val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n    val r1 = nextDouble() * (until / 2 - from / 2)\n    from + r1 + r1\n  } else {\n    from + nextDouble() * size\n  }\n  return if (r >= until) until.nextDown() else r\n}\n /**\n * Gets the next random [Float] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n * @sample samples.random.Randoms.nextFloat\n\n*/\n public open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\n /**\n * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and

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ending [toIndex] exclusive\n    * with random bytes.\n    *\n    * @return [array] with the subrange filled with
random bytes.\n    *\n    * @sample samples.random.Randoms.nextBytes\n    */\n    public open fun
nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size):
    ByteArray {\n        require(fromIndex in 0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or
toIndex ($toIndex) are out of range: 0..${array.size}.\" }\n        require(fromIndex <= toIndex) { \"fromIndex
($fromIndex) must be not greater than toIndex ($toIndex).\" }\n        val steps = (toIndex - fromIndex) / 4\n        var position = fromIndex\n        repeat(steps) {\n            val v = nextInt()\n            array[position] = v.toByte()\n
array[position + 1] = v.ushr(8).toByte()\n            array[position + 2] = v.ushr(16).toByte()\n            array[position +
3] = v.ushr(24).toByte()\n            position += 4\n        }\n        val remainder = toIndex - position\n        val vr =
nextInt(remainder * 8)\n        for (i in 0 until remainder) {\n            array[position + i] = vr.ushr(i * 8).toByte()\n
}\n        return array\n    }\n    /**\n     * Fills the specified byte [array] with random bytes and returns it.\n     *\n     * @return [array] filled with random bytes.\n     *\n     * @sample samples.random.Randoms.nextBytes\n     */\n    public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n    /**\n     * Creates a
byte array of the specified [size], filled with random bytes.\n     *\n     * @sample
samples.random.Randoms.nextBytes\n     */\n    public open fun nextBytes(size: Int): ByteArray =
nextBytes(ByteArray(size))\n    /**\n     * The default random number generator.\n     *\n     * On JVM this
generator is thread-safe, its methods can be invoked from multiple threads.\n     *\n     * @sample
samples.random.Randoms.defaultRandom\n     */\n    companion object Default : Random(), Serializable {\n        private val defaultRandom: Random = defaultPlatformRandom()\n        private object Serialized : Serializable {\n
            private const val serialVersionUID = 0L\n            private fun readResolve(): Any = Random\n        }\n        private fun
writeReplace(): Any = Serialized\n        override fun nextBits(bitCount: Int): Int =
defaultRandom.nextBits(bitCount)\n        override fun nextInt(): Int = defaultRandom.nextInt()\n        override fun
nextInt(until: Int): Int = defaultRandom.nextInt(until)\n        override fun nextInt(from: Int, until: Int): Int =
defaultRandom.nextInt(from, until)\n        override fun nextLong(): Long = defaultRandom.nextLong()\n        override fun
nextLong(until: Long): Long = defaultRandom.nextLong(until)\n        override fun nextLong(from:
Long, until: Long): Long = defaultRandom.nextLong(from, until)\n        override fun nextBoolean(): Boolean =
defaultRandom.nextBoolean()\n        override fun nextDouble(): Double = defaultRandom.nextDouble()\n        override fun
nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n        override fun
nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n        override fun
nextFloat(): Float
= defaultRandom.nextFloat()\n        override fun nextBytes(array: ByteArray): ByteArray =
defaultRandom.nextBytes(array)\n        override fun nextBytes(size: Int): ByteArray =
defaultRandom.nextBytes(size)\n        override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int):
ByteArray =\n            defaultRandom.nextBytes(array, fromIndex, toIndex)\n    }\n    /**\n     * Returns a repeatable
random number generator seeded with the given [seed] `Int` value.\n     *\n     * Two generators with the same seed
produce the same sequence of values within the same version of Kotlin runtime.\n     *\n     * *Note:* Future versions of
Kotlin may change the algorithm of this seeded number generator so that it will return\n     * a sequence of values
different from the current one for a given seed.\n     *\n     * On JVM the returned generator is NOT thread-safe. Do not
invoke it from multiple threads without proper synchronization.\n     *\n     * @sample
samples.random.Randoms.seededRandom\n     */\n    @SinceKotlin(\"1.3\")\n    public
fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))\n    /**\n     * Returns a repeatable random
number generator seeded with the given [seed] `Long` value.\n     *\n     * Two generators with the same seed produce the
same sequence of values within the same version of Kotlin runtime.\n     *\n     * *Note:* Future versions of Kotlin may
change the algorithm of this seeded number generator so that it will return\n     * a sequence of values different from
the current one for a given seed.\n     *\n     * On JVM the returned generator is NOT thread-safe. Do not invoke it from
multiple threads without proper synchronization.\n     *\n     * @sample samples.random.Randoms.seededRandom\n     */\n    @SinceKotlin(\"1.3\")\n    public fun Random(seed: Long): Random = XorWowRandom(seed.toInt()),

```

```

seed.shr(32).toInt())\n\n/**\n * Gets the next random `Int` from the random number generator in the specified
[range].\n *\n * Generates an `Int` random value uniformly distributed in the specified [range]:\n * from `range.start`
inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*\n * @SinceKotlin("1.3")\n\npublic fun Random.nextInt(range: IntRange): Int = when {\n  range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n  range.last < Int.MAX_VALUE ->
nextInt(range.first, range.last + 1)\n  range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n
else -> nextInt()\n}\n\n/**\n * Gets the next random `Long` from the random number generator in the specified
[range].\n *\n * Generates a `Long` random value uniformly distributed in the specified [range]:\n * from
`range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is
empty.\n *\n * @SinceKotlin("1.3")\n\npublic fun Random.nextLong(range: LongRange): Long = when {\n
range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")\n  range.last <
Long.MAX_VALUE
-> nextLong(range.first, range.last + 1)\n  range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last)
+ 1\n  else -> nextLong()\n}\n\n\ninternal expect fun defaultPlatformRandom(): Random\n\ninternal expect fun
doubleFromParts(hi26: Int, low27: Int): Double\n\n\ninternal fun fastLog2(value: Int): Int = 31 -
value.countLeadingZeroBits()\n\n/**\n * Takes upper [bitCount] bits (0..32) from this number. *\n\ninternal fun
Int.takeUpperBits(bitCount: Int): Int =\n  this.ushr(32 - bitCount) and (-bitCount).shr(31)\n\n\ninternal fun
checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun
checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun
checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until)
}\n\n\ninternal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from,
$until)."\n","/*\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.random\n\n\n/**\n * Gets the next random [UInt] from the random number generator.\n *\n * Generates a
[UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
Random.nextUInt(): UInt = nextInt().toUInt()\n\n\n/**\n * Gets the next random [UInt] from the random number
generator less than the specified [until] bound.\n *\n * Generates a [UInt] random value uniformly distributed
between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if
[until] is zero.\n *\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
Random.nextUInt(until: UInt): UInt = nextUInt(0u,
until)\n\n\n/**\n * Gets the next random [UInt] from the random number generator in the specified range.\n *\n *
Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and [until]
(exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
Random.nextUInt(from: UInt, until: UInt): UInt {\n  checkUIntRangeBounds(from, until)\n\n  val signedFrom =
from.toInt() xor Int.MIN_VALUE\n  val signedUntil = until.toInt() xor Int.MIN_VALUE\n\n  val signedResult =
nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n  return signedResult.toUInt()\n}\n\n\n/**\n * Gets the next
random [UInt] from the random number generator in the specified [range].\n *\n * Generates a [UInt] random value
uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n
*\n * @throws
IllegalArgumentException if [range] is empty.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun
Random.nextUInt(range: UIntRange): UInt = when {\n  range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n  range.last < UInt.MAX_VALUE ->
nextUInt(range.first, range.last + 1u)\n  range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) +
1u\n  else -> nextUInt()\n}\n\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n *

```

```

Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
[ULong.MAX_VALUE] (inclusive).\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random
number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly
distributed between
`0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is
zero.\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong] from
the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly
distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(from: ULong, until: ULong): ULong {\n    checkULongRangeBounds(from, until)\n\n    val
signedFrom = from.toLong() xor Long.MIN_VALUE\n    val signedUntil = until.toLong() xor
Long.MIN_VALUE\n\n    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n
return signedResult.toULong()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator in the
specified [range].\n *\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\n *
from `range.start` inclusive to
`range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(range: ULongRange): ULong = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < ULong.MAX_VALUE -
> nextULong(range.first, range.last + 1u)\n    range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u,
range.last) + 1u\n    else -> nextULong()\n}\n\n/**\n * Fills the specified unsigned byte [array] with random bytes
and returns it.\n *\n * @return [array] filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray):
UByteArray {\n    nextBytes(array.asByteArray())\n    return array\n}\n\n/**\n * Creates an unsigned byte array of
the specified [size], filled with random bytes.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the
specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random
UBytes.\n *\n * @return [array] with the subrange filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray,
fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n    nextBytes(array.asByteArray(), fromIndex,
toIndex)\n    return array\n}\n\n\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until >
from) { boundsErrorMessage(from, until) }\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) =
require(until > from) { boundsErrorMessage(from,
until) }\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@npackage kotlin.random\n\n/**\n * Random number generator, using Marsaglia's "xorwow" algorithm\n *\n *
Cycles after 2^192 - 2^32 repetitions.\n *\n * For more details, see Marsaglia, George (July 2003). "Xorshift
RNGs". Journal of Statistical Software. 8 (14). doi:10.18637/jss.v008.i14\n *\n * Available at
https://www.jstatsoft.org/v08/i14/paper\n *\n *\ninternal class XorWowRandom internal constructor(\n    private
var x: Int,\n    private var y: Int,\n    private var z: Int,\n    private var w: Int,\n    private var v: Int,\n    private var
addend: Int\n) : Random(), Serializable {\n    internal constructor(seed1: Int, seed2: Int) : this(seed1,
seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\n\n    init {\n        require((x
or y or z or w or v) != 0) { "Initial state must have at least one non-zero element." }\n        // some trivial seeds
can produce several values with zeroes in upper bits, so we discard first 64\n        repeat(64) { nextInt() }\n    }\n}

```



```

override fun nextInt(): Int {
    // Equivalent to the xorxow algorithm // From Marsaglia, G. 2003. Xorshift
    // RNGs. J. Statis. Soft. 8, 14, p. 5
    var t = x
    t = t xor (t ushr 2)
    x = y
    y = z
    z = w
    val v0 = v
    w = v0
    t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)
    v = t
    addend += 362437
    return t + addend
}
override fun nextBits(bitCount: Int): Int =
    nextInt().takeUpperBits(bitCount)
private companion object {
    private const val serialVersionUID: Long = 0L
}
}
/*
 * Copyright
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 * by

```

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```

*
 * @file:kotlin.jvm.JvmMultifileClass
 * @file:kotlin.jvm.JvmName("RangesKt")
 * package
 * kotlin.ranges
 * Represents a range of [Comparable] values.
 * private open class ComparableRange<T :
 * Comparable<T>> {
 *     override val start: T
 *     override val endInclusive: T
 * } : ClosedRange<T> {
 *     override
 *     fun equals(other: Any?): Boolean {
 *         return other is ComparableRange<*> && (isEmpty() && other.isEmpty())
 *         ||
 *         start == other.start && endInclusive == other.endInclusive
 *     }
 *     override fun hashCode(): Int
 *     {
 *         return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()
 *     }
 *     override fun
 *     toString(): String = "$start..$endInclusive"
 * }
 * Creates a range from this [Comparable] value to the
 * specified [that] value.
 * This value needs to be smaller than or equal to [that] value, otherwise the returned
 * range will be empty.

```

```

 * @sample samples.ranges.Ranges.rangeFromComparable
 * public operator fun <T : Comparable<T>>
 * T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)
 * Represents a range of floating
 * point numbers.
 * Extends [ClosedRange] interface providing custom operation [lessThanOrEquals] for comparing
 * values of range domain type.
 * This interface is implemented by floating point ranges returned by
 * [Float.rangeTo] and [Double.rangeTo] operators to
 * achieve IEEE-754 comparison order instead of total order of
 * floating point numbers.
 * @SinceKotlin("1.1")
 * public interface ClosedFloatingPointRange<T :
 * Comparable<T>> : ClosedRange<T> {
 *     override fun contains(value: T): Boolean = lessThanOrEquals(start,
 * value) && lessThanOrEquals(value, endInclusive)
 *     override fun isEmpty(): Boolean = !lessThanOrEquals(start,
 * endInclusive)
 *     /**
 *      * Compares two values of range domain type and returns true if first is less than or
 *      * equal to second.
 *      */

```

```

    fun lessThanOrEquals(a: T, b: T): Boolean
}
}
 * A closed range of values of type `Double`.
 * Numbers are compared with the ends of this range according to IEEE-754.
 * private class
 * ClosedDoubleRange(
 *     start: Double,
 *     endInclusive: Double
 * ) : ClosedFloatingPointRange<Double> {
 *     private val _start = start
 *     private val _endInclusive = endInclusive
 *     override val start: Double get() = _start
 *     override val endInclusive: Double get() = _endInclusive
 *     override fun lessThanOrEquals(a: Double, b:
 * Double): Boolean = a <= b
 *     override fun contains(value: Double): Boolean = value >= _start && value <=
 * _endInclusive
 *     override fun isEmpty(): Boolean = !(_start <= _endInclusive)
 *     override fun equals(other:
 * Any?): Boolean {
 *         return other is ClosedDoubleRange && (isEmpty() && other.isEmpty())
 *         ||
 *         _start
 *         == other._start && _endInclusive == other._endInclusive
 *     }
 *     override fun hashCode(): Int {
 *         return
 *         if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()
 *     }
 *     override fun toString(): String
 *     = "$_start..$_endInclusive"
 * }
 * Creates a range from this [Double] value to the specified [that] value.
 * Numbers are compared with the ends of this range according to IEEE-754.
 * @sample
 * samples.ranges.Ranges.rangeFromDouble
 * @SinceKotlin("1.1")
 * public operator fun Double.rangeTo(that:
 * Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)
 * A closed range of
 * values of type `Float`.
 * Numbers are compared with the ends of this range according to IEEE-754.
 * private class ClosedFloatRange(
 *     start: Float,
 *     endInclusive: Float
 * ) : ClosedFloatingPointRange<Float>
 * {
 *     private val _start = start
 *     private val _endInclusive = endInclusive
 *     override val start: Float get() =
 * _start
 *     override val endInclusive: Float get() = _endInclusive
 *     override fun lessThanOrEquals(a: Float,
 * b: Float): Boolean = a <= b
 *     override fun contains(value: Float): Boolean = value >= _start && value <=
 * _endInclusive
 *     override fun isEmpty(): Boolean = !(_start <= _endInclusive)
 *     override fun equals(other:
 * Any?): Boolean {
 *         return other is ClosedFloatRange && (isEmpty() && other.isEmpty())
 *         ||
 *         _start

```

```

== other._start && _endInclusive == other._endInclusive)\n  }\n\n  override fun hashCode(): Int {\n    return if
(isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n  }\n\n  override fun toString(): String =
\"$_start..$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Float] value to the specified [that] value.\n * \n * Numbers are compared with the ends of this range according to IEEE-754.\n * @sample
samples.ranges.Ranges.rangeFromFloat\n * \n * @SinceKotlin(\"1.1\")\n * public operator fun Float.rangeTo(that:
Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n * \n * Returns `true` if this
iterable range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n * @SinceKotlin(\"1.3\")\n * @kotlin.internal.InlineOnly\n * public inline operator fun <T, R> R.contains(element: T?):
Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n  element != null &&
contains(element)\n * \n * internal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n  if (!isPositive)
throw IllegalArgumentException(\"Step must be positive, was: $step.\")\n}\n * \n * Copyright 2010-2019
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n * @file:kotlin.jvm.JvmName(\"KClasses\")\n * @file:Suppress(\"UNCHECKED_CAST\")\n * \n * package
kotlin.reflect\n * \n * import kotlin.internal.LowPriorityInOverloadResolution\n * \n * \n * \n * \n * \n * Casts the given [value] to the
class represented by this [KClass] object.\n * \n * Throws an exception if the value
is `null` or if it is not an instance of this class.\n * \n * This is an experimental function that behaves as a similar
function from kotlin.reflect.full on JVM.\n * \n * @see [KClass.isInstance]\n * @see [KClass.safeCast]\n
*\n * @SinceKotlin(\"1.4\")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * @LowPriorityInOverloadResoluti
on\n * fun <T : Any> KClass<T>.cast(value: Any?): T {\n  if (!isInstance(value)) throw ClassCastException(\"Value
cannot be cast to $qualifiedOrSimpleName\")\n  return value as T\n}\n * \n * // TODO: replace with qualifiedName
when it is fully supported in K/JS\n * internal expect val KClass<*>.qualifiedOrSimpleName: String?\n * \n * \n * Casts
the given [value] to the class represented by this [KClass] object.\n * \n * Returns `null` if the value is `null` or if it is not
an instance of this class.\n * \n * This is an experimental function that behaves as a similar function from
kotlin.reflect.full on JVM.\n * \n * @see [KClass.isInstance]\n * @see [KClass.cast]\n
*\n * @SinceKotlin(\"1.4\")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * @LowPriorityInOverloadResoluti
on\n * fun
<T : Any> KClass<T>.safeCast(value: Any?): T? {\n  return if (isInstance(value)) value as T else null\n}\n * \n * \n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n * \n * package
kotlin.reflect\n * \n * import kotlin.jvm.JvmField\n * \n * import kotlin.jvm.JvmStatic\n * \n * \n * \n * \n * Represents a type
projection. Type projection is usually the argument to another type in a type usage.\n * \n * For example, in the type
`Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.\n * \n * \n * Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.\n * \n * \n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n * \n * for more information.\n * \n * @SinceKotlin(\"1.1\")\n * \n * public data class KTypeProjection constructor(\n  /**\n * \n * The use-site variance specified in the projection, or `null` if this is a star projection.\n * \n * \n * public val variance:
KVariance?,\n  /**\n * \n * The type specified in the projection, or `null` if this is a star projection.\n * \n * \n * public
val type: KType?\n) {\n  \n  init {\n    require((variance == null) == (type == null)) {\n      if (variance ==
null)\n        \"Star projection must have no type specified.\"\n      else\n        \"The projection variance
$variance requires type to be specified.\"\n    }\n  }\n  \n  override fun toString(): String = when (variance) {\n
null -> \"*\n  KVariance.INVARIANT -> type.toString()\n  KVariance.IN -> \"$type\"\n  KVariance.OUT -> \"out $type\"\n  }\n}\n * \n * \n * public companion object {\n  \n  // provided for compiler access\n  @JvmField\n
  @PublishedApi\n  internal val star: KTypeProjection = KTypeProjection(null, null)\n  \n  /**\n * \n * Star projection, denoted by the `*` character.\n * \n * For example, in the type `KClass<*>`, `*` is the star
projection.\n * \n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n * \n * for more

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information.\n      */\n      public val STAR: KTypeProjection get() = star\n\n      /**\n      * Creates an invariant projection of a given type. Invariant projection is just the type itself,\n      * without any use-site variance modifiers applied to it.\n      * For example, in the type `Set<String>`, `String` is an invariant projection of the type represented by the class `String`.\n      */\n      @JvmStatic\n      public fun invariant(type: KType): KTypeProjection =\n      KTypeProjection(KVariance.INVARIANT, type)\n\n      /**\n      * Creates a contravariant projection of a given type, denoted by the `in` modifier applied to a type.\n      * For example, in the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\n      */\n      @JvmStatic\n      public fun contravariant(type: KType): KTypeProjection =\n      KTypeProjection(KVariance.IN, type)\n\n      /**\n      * Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.\n      * For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.\n      */\n      @JvmStatic\n      public fun covariant(type: KType): KTypeProjection =\n      KTypeProjection(KVariance.OUT, type)\n    }\n  }"/>\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type in a projection (*use-site variance*).\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n *\n * @see [KTypeParameter.variance]\n * @see [KTypeProjection]\n */\n@SinceKotlin("1.1")\nenum class KVariance {\n    /**\n     * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n     */\n    INVARIANT,\n    /**\n     * The affected type parameter or type is *contravariant*. Denoted by the `in` modifier in the source code.\n     */\n    IN,\n    /**\n     * The affected type parameter or type is *covariant*. Denoted by the `out` modifier in the source code.\n     */\n    OUT,\n  }"/>\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Returns a runtime representation of the given reified type [T] as an instance of [KType].\n * Note that on JVM, the created type has no annotations ([KType.annotations] returns an empty list)\n * even if the type in the source code is annotated. Support for type annotations might be added in a future version.\n */\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <reified T> typeOf(): KType =\n  throw UnsupportedOperationException("This function is implemented as an intrinsic on all supported platforms.")\n"/>\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\npackage kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\n */\nexpect interface Appendable {\n    /**\n     * Appends the specified character [value] to this Appendable and returns this instance.\n     *\n     * @param value the character to append.\n     */\n    fun append(value: Char): Appendable\n\n    /**\n     * Appends the specified character sequence [value] to this Appendable and returns this instance.\n     *\n     * @param value the character sequence to append. If [value] is `null`, then the four characters `\\`null`` are appended to this Appendable.\n     */\n    fun append(value: CharSequence?): Appendable\n\n    /**\n     * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n     *\n     * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n     * then characters are appended as if [value] contained the four characters `\\`null``.\n     * @param startIndex the beginning (inclusive) of the subsequence to append.\n     * @param endIndex the end (exclusive) of the subsequence to append.\n     *\n     * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n     */\n    fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable\n  }\n"/>\n * Appends a subsequence of

```

the specified character sequence [value] to this Appendable and returns this instance.\n \* @param value the character sequence from which a subsequence is appended.\n \* @param startIndex the beginning (inclusive) of the subsequence to append.\n \* @param endIndex the end (exclusive) of the subsequence to append.\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
fun <T : Appendable> T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {\n
@Suppress("UNCHECKED_CAST")\n    return append(value, startIndex, endIndex) as T}\n\n/**\n * Appends
all arguments to the given [Appendable].\n */\npublic fun <T : Appendable> T.append(vararg value:
CharSequence?): T {\n    for (item in value)\n        append(item)\n    return this}\n\n/** Appends a line feed
character (`\n`) to this Appendable. *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
Appendable.appendLine(): Appendable = append("\n")\n\n/** Appends value to the given Appendable and a line
feed character (`\n`) after it. *\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()\n\n/** Appends value
to the given Appendable and a line feed character (`\n`) after it.
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun Appendable.appendLine(value: Char): Appendable = append(value).appendLine()\n\n\ninternal fun <T>
Appendable.appendElement(element: T, transform: ((T) -> CharSequence?)) {\n    when {\n        transform != null -
> append(transform(element))\n        element is CharSequence? -> append(element)\n        element is Char ->
append(element)\n        else -> append(element.toString())\n    }\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
```

```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source
string and removes\n * the first and the last lines if they are blank (notice difference blank vs empty).\n * \n * Doesn't
affect a line if it doesn't
```

```
contain [marginPrefix] except the first and the last blank lines.\n * \n * Doesn't preserve the original line endings.\n
*\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n
```

```
*\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see kotlin.text.isWhitespace\n */\npublic
fun String.trimMargin(marginPrefix: String = "|"): String =\n    replaceIndentByMargin("|",
```

```
marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\n
*\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n
```

```
*\n\npublic fun String.replaceIndentByMargin(newIndent: String = "|", marginPrefix: String = "|"): String {\n
require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank string." }\n    val lines = lines()\n    return
lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), {\n
```

```
line ->{\n        val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n        when {\n
firstNonWhitespaceIndex == -1 -> null\n            line.startsWith(marginPrefix, firstNonWhitespaceIndex) ->
line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n            else -> null\n        }\n    })\n}\n\n/**\n *
Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and
the last\n * lines if they are blank (notice difference blank vs empty).\n * \n * Note that blank lines do not affect the
detected indent level.\n * \n * In case if there are non-blank lines with no leading whitespace characters (no indent at
all) then the\n * common indent is 0, and therefore this function doesn't change the indentation.\n * \n * Doesn't
preserve the original line endings.\n * \n * @sample samples.text.Strings.trimIndent\n * @see trimMargin\n * @see
kotlin.text.isBlank\n */\npublic fun String.trimIndent(): String = replaceIndent("|")\n\n/**\n * Detects a common
minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\n
```

```
*\n\npublic fun String.replaceIndent(newIndent: String = "|"): String {\n    val lines = lines()\n    val
minCommonIndent = lines\n        .filter(String::isNotBlank)\n        .map(String::indentWidth)\n        .minOrNull()
?: 0\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->
```

```

line.drop(minCommonIndent) })\n}\n\n/**\n * Prepends [indent] to every line of the original string.\n * Doesn't
preserve the original line endings.\n */\npublic fun String.prependIndent(indent: String = ` `): String =\nlineSequence()\n    .map {\n        when {\n            it.isBlank() -> {\n                when {\n
it.length < indent.length -> indent\n                    else -> it\n                }\n            }\n        }\n    }.joinToString("\n")\n\nprivate fun String.indentWidth(): Int = indexOfFirst {
!it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun getIndentFunction(indent: String) = when {\n
indent.isEmpty() -> { line: String -> line }\n    else -> { line: String -> indent + line }\n}\n\nprivate inline fun
List<String>.reindent(\n    resultSizeEstimate: Int,\n    indentAddFunction: (String) -> String,\n    indentCutFunction: (String) -> String?): String {\n    val lastIndex = lastIndex\n    return mapIndexedNotNull {
index, value ->\n        if ((index == 0 || index == lastIndex) && value.isBlank())\n            null\n        else\n            indentCutFunction(value)?.let(indentAddFunction)?: value\n    }\n    .joinTo(StringBuilder(resultSizeEstimate),
"\n")\n    .toString()\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Defines names for
Unicode symbols used in proper Typography.\n */\npublic object Typography {\n    /** The character &#x22;
\u2013 quotation mark */\n    public const val quote: Char = "\u0022" \n    /** The character &#x24; \u2013 dollar
sign */\n    public const val dollar: Char = "\u0024" \n    /** The character &#x26; \u2013 ampersand */\n    public
const val amp: Char = "\u0026" \n    /** The character &#x3C; \u2013 less-than sign */\n    public const val less:
Char = "\u003C" \n    /** The character &#x3E; \u2013 greater-than sign */\n    public const val greater: Char =
"\u003E" \n    /** The non-breaking space character */\n    public const val nbsp: Char = "\u00A0" \n    /** The
character &#xD7; */\n    public const val times: Char = "\u00D7" \n    /** The character &#xA2; */\n    public const
val cent: Char = "\u00A2" \n    /** The character &#xA3; */\n    public const val pound: Char = "\u00A3" \n    /** The
character &#xA7; */\n    public const val section: Char = "\u00A7" \n    /** The
character &#xA9; */\n    public const val copyright: Char = "\u00A9" \n    /** The character &#xAB; */\n
    @SinceKotlin("1.6")\n    public const val leftGuillemet: Char = "\u00AB" \n    /** The character &#xBB; */\n
    @SinceKotlin("1.6")\n    public const val rightGuillemet: Char = "\u00BB" \n    /** The character &#xAE; */\n
    public const val registered: Char = "\u00AE" \n    /** The character &#xB0; */\n    public const val degree: Char =
"\u00B0" \n    /** The character &#xB1; */\n    public const val plusMinus: Char = "\u00B1" \n    /** The character
&#xB6; */\n    public const val paragraph: Char = "\u00B6" \n    /** The character &#xB7; */\n    public const val
middleDot: Char = "\u00B7" \n    /** The character &#xBD; */\n    public const val half: Char = "\u00BD" \n    /**
The character &#x2013; */\n    public const val ndash: Char = "\u2013" \n    /** The character
&#x2014; */\n    public const val mdash: Char = "\u2014" \n    /** The character &#x2018; */\n    public const val
leftSingleQuote: Char = "\u2018" \n    /** The character &#x2019; */\n    public const val rightSingleQuote: Char =
"\u2019" \n    /** The character &#x201A; */\n    public const val lowSingleQuote: Char = "\u201A" \n    /** The
character &#x201C; */\n    public const val leftDoubleQuote: Char = "\u201C" \n    /** The character &#x201D; */\n
    public const val rightDoubleQuote: Char = "\u201D" \n    /** The character &#x201E; */\n    public const val
lowDoubleQuote: Char = "\u201E" \n    /** The character &#x2020; */\n    public const val dagger: Char =
"\u2020" \n    /** The character &#x2021; */\n    public const val doubleDagger: Char = "\u2021" \n    /** The
character &#x2022; */\n    public const val bullet: Char = "\u2022" \n    /** The character &#x2026; */\n    public
const val ellipsis: Char = "\u2026" \n    /** The character &#x2032; */\n    public const
val prime: Char = "\u2032" \n    /** The character &#x2033; */\n    public const val doublePrime: Char = "\u2033" \n
    /** The character &#x20AC; */\n    public const val euro: Char = "\u20AC" \n    /** The character &#x2122; */\n
    public const val tm: Char = "\u2122" \n    /** The character &#x2248; */\n    public const val almostEqual: Char =
"\u2248" \n    /** The character &#x2260; */\n    public const val notEqual: Char = "\u2260" \n    /** The character
&#x2264; */\n    public const val lessOrEqual: Char = "\u2264" \n    /** The character &#x2265; */\n    public const
val greaterOrEqual: Char = "\u2265" \n\n    /** The character &#xAB; */\n    @Deprecated("This constant has a
typo in the name. Use leftGuillemet instead.")\n    ReplaceWith("\u2013", Typography.leftGuillemet())\n}

```

```

@DeprecatedSinceKotlin("1.6")\n public const val leftGuillemete: Char = "\u00AB\n\n /** The character
&#xBB; */\n @Deprecated("This constant has a typo in the name. Use rightGuillemet instead.\n",
ReplaceWith("Typography.rightGuillemet"))\n @DeprecatedSinceKotlin("1.6")\n public const val
rightGuillemete: Char = "\u00BB\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Represents a collection of captured groups in a
single match of a regular expression.\n * This collection has size of `groupCount + 1` where `groupCount` is the
count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount` and group with the index
0 corresponds to the entire match.\n * An element of the collection at the particular index can be `null`,\n * if the
corresponding group in the regular expression is optional and\n * there was no match captured by that group.\n
*/\n\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\n\n /** Returns a group with
the specified [index].\n * @return An instance of [MatchGroup] if the group with the specified [index] was
matched or `null` otherwise.\n * Groups are indexed from 1 to the count of groups in the regular expression.
A group with the index 0\n * corresponds to the entire match.\n */\n public operator fun get(index: Int):
MatchGroup?\n}\n\n/**\n * Extends [MatchGroupCollection] by introducing a way to get matched groups by name,
when regex supports it.\n */\n\n@SinceKotlin("1.1")\npublic interface MatchNamedGroupCollection :
MatchGroupCollection {\n\n /**\n * Returns a named group with the specified [name].\n * @return An
instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.\n * @throws
IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.\n *
@throws UnsupportedOperationException if getting named groups isn't supported on the current platform.\n
*/\n\n public operator fun get(name: String): MatchGroup?\n}\n\n/**\n * Represents the results from a single
regular expression match.\n */\n\npublic interface MatchResult {\n\n /** The range of indices in the original string
where match was captured.\n */\n public val range: IntRange\n\n /** The substring from the input string captured by
this match.\n */\n public val value: String\n\n /**\n * A collection of groups matched by the regular expression.\n
*/\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular
expression.\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire
match.\n */\n public val groups: MatchGroupCollection\n\n /**\n * A list of matched indexed group values.\n
*/\n * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular
expression.\n * Groups are indexed from 1 to `groupCount` and
group with the index 0 corresponds to the entire match.\n * If the group in the regular expression is
optional and there were no match captured by that group,\n * corresponding item in [groupValues] is an empty
string.\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public val
groupValues: List<String>\n\n /**\n * An instance of [MatchResult.Destructured] wrapper providing
components for destructuring assignment of group values.\n * component1 corresponds to the value of the
first group, component2\n \u0026u2014 of the second, and so on.\n * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n */\n public val destructured: Destructured get() =
Destructured(this)\n\n /** Returns a new [MatchResult] with the results for the next match, starting at the
position\n * at which the last match ended (at the character after the last matched character).\n */\n public fun
next(): MatchResult?\n\n\n /**\n * Provides components for destructuring assignment of group values.\n * [component1]
corresponds to the value of the first group, [component2]\n \u0026u2014 of the second, and so on.\n * If the group
in the regular expression is optional and there were no match captured by that group,\n * corresponding
component value is an empty string.\n * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n */\n\n public class Destructured internal
constructor(public val match: MatchResult) {\n\n @kotlin.internal.InlineOnly\n public operator inline fun
component1(): String = match.groupValues[1]\n\n @kotlin.internal.InlineOnly\n public operator inline fun
component2(): String = match.groupValues[2]\n\n @kotlin.internal.InlineOnly\n public operator inline fun
component3(): String = match.groupValues[3]\n\n @kotlin.internal.InlineOnly\n public operator inline fun

```

component4():

```
String = match.groupValues[4]\n    @kotlin.internal.InlineOnly\n    public operator inline fun component5():  
String = match.groupValues[5]\n    @kotlin.internal.InlineOnly\n    public operator inline fun component6():  
String = match.groupValues[6]\n    @kotlin.internal.InlineOnly\n    public operator inline fun component7():  
String = match.groupValues[7]\n    @kotlin.internal.InlineOnly\n    public operator inline fun component8():  
String = match.groupValues[8]\n    @kotlin.internal.InlineOnly\n    public operator inline fun component9():  
String = match.groupValues[9]\n    @kotlin.internal.InlineOnly\n    public operator inline fun component10():  
String = match.groupValues[10]\n    /**\n     * Returns destructured group values as a list of strings.\n     * First value in the returned list corresponds to the value of the first group, and so on.\n     * @sample  
samples.text.Regexps.matchDestructuringToGroupValues\n     *\n     * public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\n    }\n}"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this  
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n @file:kotlin.jvm.JvmMultifileClass()\n @file:kotlin.jvm.JvmName("DurationUnitKt")\n\npackage  
kotlin.time\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24  
[HOURS].\n *\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalTime::class)\n\npublic expect enum class  
DurationUnit {\n    /**\n     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n     *\n     * NANOSECONDS,\n     *\n     * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n     *\n     *\n     * Time unit representing one millisecond, which is 1/1000 of a second.\n     *\n     * MILLISECONDS,\n     *\n     * Time unit representing one second.\n     * SECONDS,\n     *\n     * Time unit  
representing one minute.\n     * MINUTES,\n     *\n     * Time unit representing one hour.\n     * HOURS,\n     *\n     * Time unit representing one day, which is always equal to 24 hours.\n     * DAYS;\n    }\n\n    /**\n     * Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified  
[targetUnit].\n     *\n     *\n     * internal expect fun convertDurationUnit(value: Double, sourceUnit:  
DurationUnit, targetUnit: DurationUnit): Double\n    // overflown result is  
unspecified\n     *\n     * internal expect fun convertDurationUnitOverflow(value: Long, sourceUnit:  
DurationUnit, targetUnit: DurationUnit): Long\n    // overflown result is coerced in the Long range  
boundaries\n     *\n     * internal expect  
fun convertDurationUnit(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit):  
Long\n     *\n     *\n     * internal fun  
DurationUnit.shortName(): String = when (this) {\n        DurationUnit.NANOSECONDS -> "ns"\n        DurationUnit.MICROSECONDS -> "us"\n        DurationUnit.MILLISECONDS -> "ms"\n        DurationUnit.SECONDS -> "s"\n        DurationUnit.MINUTES -> "m"\n        DurationUnit.HOURS -> "h"\n        DurationUnit.DAYS -> "d"\n        else -> error("Unknown unit: $this")\n     }\n     *\n     *\n     * internal fun  
durationUnitByShortName(shortName: String): DurationUnit = when (shortName) {\n        "ns" ->  
DurationUnit.NANOSECONDS\n        "us" -> DurationUnit.MICROSECONDS\n        "ms" ->  
DurationUnit.MILLISECONDS\n        "s" -> DurationUnit.SECONDS\n        "m" -> DurationUnit.MINUTES\n        "h" -> DurationUnit.HOURS\n        "d" -> DurationUnit.DAYS\n        else -> throw  
IllegalArgumentException("Unknown duration unit short name:  
$shortName")\n     }\n     *\n     *\n     * internal  
fun durationUnitByIsoChar(isoChar: Char, isTimeComponent: Boolean): DurationUnit =\n    when {\n        !isTimeComponent -> {\n            when (isoChar) {\n                'D' -> DurationUnit.DAYS\n                else -> throw  
IllegalArgumentException("Invalid or unsupported duration ISO non-time unit: $isoChar")\n            }\n        }\n        else -> {\n            when (isoChar) {\n                'H' -> DurationUnit.HOURS\n                'M' ->  
DurationUnit.MINUTES\n                'S' -> DurationUnit.SECONDS\n                else -> throw  
IllegalArgumentException("Invalid duration ISO time unit: $isoChar")\n            }\n        }\n    }"/**\n * Copyright
```

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 \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

```

package kotlin.time
import kotlin.annotation.AnnotationTarget

/** This annotation marks the experimental preview of the standard library API for measuring time and working with durations.
  * > Note that this API is in a preview state and has a very high chance of being changed in the future.
  * Do not use it if you develop a library since your library will become binary incompatible with the future versions of the standard library.
  * Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by annotating that usage with the [OptIn] annotation, e.g.
  * `@OptIn(ExperimentalTime::class)`, or by using the compiler argument `-Xopt-in=kotlin.time.ExperimentalTime`.
  * @Suppress("DEPRECATION")
  * @Experimental(level = Experimental.Level.ERROR)
  * @RequiresOptIn(level = RequiresOptIn.Level.ERROR)
  * @MustBeDocumented
  * @Retention(AnnotationRetention.BINARY)
  * @Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)
  */
@SinceKotlin("1.3")
public annotation class ExperimentalTime

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  */
package kotlin.time

/** A source of time for measuring time intervals.
  * The only operation provided by the time source is [markNow]. It returns a [TimeMark], which can be used to query the elapsed time later.
  * @see [measureTime]
  * @see [measureTimedValue]
  */
@SinceKotlin("1.3")
@ExperimentalTime
public interface TimeSource {
    /** Marks a point in time on this time source.
     * The returned [TimeMark] instance encapsulates the captured time point and allows querying the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.
     */
    public fun markNow(): TimeMark
}

/** The most precise time source available in the platform.
  * This time source returns its readings from a source of monotonic time when it is available in a target platform, and resorts to a non-monotonic time source otherwise.
  */
public object Monotonic : TimeSource by MonotonicTimeSource {
    override fun toString(): String = MonotonicTimeSource.toString()
}

/** Companion object.
  */
public companion object {
    /** Represents a time point notched on a particular [TimeSource]. Remains bound to the time source it was taken from and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).
     */
    @SinceKotlin("1.3")
    @ExperimentalTime
    public abstract class TimeMark {
        /** Returns the amount of time passed from this mark measured with the time source from which this mark was taken.
         * Note that the value returned by this function can change on subsequent invocations.
         */
        public abstract fun elapsedNow(): Duration

        /** Returns a time mark on the same time source that is ahead of this time mark by the specified [duration].
         * The returned time mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.
         */
        public open operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)

        /** Returns a time mark on the same time source that is behind this time mark by the specified [duration].
         * The returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.
         */
        public open operator fun minus(duration: Duration): TimeMark = plus(-duration)

        /** Returns true if this time mark has passed according to the time source from which this mark was taken.
         * Note that the value returned by this function can change on subsequent invocations.
         */
        * If the time source is monotonic, it can change only from false to true, namely, when the time mark becomes behind the current point of the time source.
         */
        public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()

        /** Returns false if this time mark has not passed according to the time source from which this mark was taken.
         * Note that the value returned by this function can change on subsequent invocations.
         */
        * If the time source is monotonic, it can change only from true to false, namely, when the time mark becomes behind the current point of the time source.
         */
        public fun hasNotPassedNow(): Boolean = !hasPassedNow()
    }
}

```



```

Boolean =
elapsedNow().isNegative()\n\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@
Deprecated(\n  \nSubtracting one TimeMark from another is not a well defined operation because these time marks
could have been obtained from the different time sources.\",\n  level =
DeprecationLevel.ERROR\n)\n\n@Suppress("UNUSED_PARAMETER")\npublic
inline operator fun TimeMark.minus(other: TimeMark): Duration = throw Error("\nOperation is
disallowed.\")\n\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Deprecated(\n
\nComparing one TimeMark to another is not a well defined operation because these time marks could have been
obtained from the different time sources.\",\n  level =
DeprecationLevel.ERROR\n)\n\n@Suppress("UNUSED_PARAMETER")\npublic inline operator fun
TimeMark.compareTo(other: TimeMark): Int = throw Error("\nOperation is
disallowed.\")\n\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val mark: TimeMark, val adjustment:
Duration) : TimeMark() {\n  override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n\n
override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)\n}\n", "/*\n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal expect object MonotonicTimeSource :
TimeSource\n\n/**\n * An abstract class used to implement time sources that return their readings as [Long] values
in the specified [unit].\n * \n * @property unit The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractLongTimeSource(protected val
unit: DurationUnit) : TimeSource {\n  /**\n   * This protected method should be overridden to return the current
reading of the time source expressed as a [Long] number\n   * in the unit specified by the [unit] property.\n
*/\n\n  protected abstract fun read(): Long\n\n  private class LongTimeMark(private val startedAt: Long, private val
timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {\n    override fun
elapsedNow():
Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n    override fun plus(duration:
Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)\n  }\n\n  override fun
markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * An abstract class used to
implement time sources that return their readings as [Double] values in the specified [unit].\n * \n * @property unit
The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractDoubleTimeSource(protected val
unit: DurationUnit) : TimeSource {\n  /**\n   * This protected method should be overridden to return the current
reading of the time source expressed as a [Double] number\n   * in the unit specified by the [unit] property.\n
*/\n\n  protected abstract fun read(): Double\n\n  private class DoubleTimeMark(private val startedAt: Double,
private val timeSource: AbstractDoubleTimeSource,
private val offset: Duration) : TimeMark() {\n    override fun elapsedNow(): Duration = (timeSource.read() -
startedAt).toDuration(timeSource.unit) - offset\n    override fun plus(duration: Duration): TimeMark =
DoubleTimeMark(startedAt, timeSource, offset + duration)\n  }\n\n  override fun markNow(): TimeMark =
DoubleTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * A time source that has programmatically updatable
readings. It is useful as a predictable source of time in tests.\n * \n * The current reading value can be advanced by
the specified duration amount with the operator [plusAssign]:\n * \n * ```\n * val timeSource = TestTimeSource()\n *
timeSource += 10.seconds\n * ```\n * \n * Implementation note: the current reading value is stored as a [Long]
number of nanoseconds,\n * thus it's capable to represent a time range of approximately \u00b11292 years.\n *
\n * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException]
is thrown.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic class TestTimeSource :
AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {\n  private var reading: Long = 0L\n\n  override fun
read(): Long = reading\n\n  /**\n   * Advances the current reading value of this time source by the
specified [duration].\n   * \n   * [duration] value is rounded down towards zero when converting it to a [Long]

```

```

number of nanoseconds.\n * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't
advance because\n * the duration value is rounded to zero nanoseconds.\n * @throws
IllegalStateException when the reading value overflows as the result of this operation.\n * public operator fun
plusAssign(duration: Duration) {\n val longDelta = duration.toLong(unit)\n reading = if (longDelta !=
Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\n // when delta fits in long, add it as long\n
val
newReading = reading + longDelta\n if (reading xor longDelta >= 0 && reading xor newReading < 0)
overflow(duration)\n newReading\n } else {\n val delta = duration.toDouble(unit)\n // when
delta is greater than long, add it as double\n val newReading = reading + delta\n if (newReading >
Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\n newReading.toLong()\n
}\n }\n private fun overflow(duration: Duration) {\n throw IllegalStateException("TestTimeSource will
overflow if its reading ${reading}ns is advanced by $duration.")\n }\n }"/*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport
kotlin.contracts.*\n\n/**\n * Executes the given function [block] and returns the duration
of elapsed time interval.\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun measureTime(block: () -> Unit): Duration {\n
contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return
TimeSource.Monotonic.measureTime(block)\n}\n\n\n/**\n * Executes the given function [block] and returns the
duration of elapsed time interval.\n * The elapsed time is measured with the specified `this` [TimeSource]
instance.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun TimeSource.measureTime(block: ()
-> Unit): Duration {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n\n val
mark = markNow()\n block()\n return mark.elapsedNow()\n}\n\n\n/**\n * Data class representing a result of
executing an action, along with the duration of elapsed time interval.\n * @property value the result of the
action.\n * @property duration the time
elapsed to execute the action.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic data class
TimedValue<T>(val value: T, val duration: Duration)\n\n\n/**\n * Executes the given function [block] and returns an
instance of [TimedValue] class, containing both\n * the result of the function execution and the duration of elapsed
time interval.\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun <T> measureTimedValue(block: () -> T):
TimedValue<T> {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n\n return
TimeSource.Monotonic.measureTimedValue(block)\n}\n\n\n/**\n * Executes the given [block] and returns an
instance of [TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time
interval.\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic
inline fun <T> TimeSource.measureTimedValue(block: () -> T): TimedValue<T> {\n contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n\n val mark = markNow()\n val result =
block()\n return TimedValue(result, mark.elapsedNow())\n}\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.native.concurrent.SharedImmutable\n\n\n/**\n * Defines deep recursive
function that keeps its stack on the heap,\n * which allows very deep recursive computations that do not use the
actual call stack.\n * To initiate a call to this deep recursive function use its [invoke] function.\n * As a rule of
thumb, it should be used if recursion goes deeper than a thousand calls.\n * The [DeepRecursiveFunction] takes
one
parameter of type [T] and returns a result of type [R].\n * The [block] of code defines the body of a recursive
function. In this block\n * [callRecursive][DeepRecursiveScope.callRecursive] function can be used to make a
recursive call\n * to the declared function. Other instances of [DeepRecursiveFunction] can be called\n * in this

```

scope with `callRecursive` extension, too. For example, take a look at the following recursive tree class and a deeply recursive instance of this tree with 100K nodes:

```

class Tree(val left: Tree? = null, val right: Tree? = null) {
    val deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()
}

```

A regular recursive function can be defined to compute a depth of a tree:

```

fun depth(t: Tree?): Int =
    if (t == null) 0 else max(depth(t.left), depth(t.right)) + 1
println(depth(deepTree)) // StackOverflowError

```

If this `depth` function is called for a `deepTree` it produces

[StackOverflowError] because of deep recursion. However, the `depth` function can be rewritten using `DeepRecursiveFunction` in the following way, and then it successfully computes

```
[depth(deepTree)][DeepRecursiveFunction.invoke] expression:
val depth =

```

```
DeepRecursiveFunction<Tree?, Int> { t ->
    if (t == null) 0 else max(callRecursive(t.left),

```

```
callRecursive(t.right)) + 1 }
println(depth(deepTree)) // Ok

```

Deep recursive functions can also mutually call each other using a heap for the stack via

```
[callRecursive][DeepRecursiveScope.callRecursive]

```

extension. For example, the following pair of mutually recursive functions computes the number of tree nodes at even depth in the tree.

```

val mutualRecursion = object {
    val even:

```

```
DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->
    if (t == null) 0 else

```

```
odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1 }
val odd: DeepRecursiveFunction<Tree?,

```

```
Int> = DeepRecursiveFunction { t ->
    if (t == null) 0 else even.callRecursive(t.left) +

```

```
even.callRecursive(t.right) }
}

```

@param [T] the function parameter type. @param [R] the function result type. @param block the function body.

```

@SinceKotlin("1.4")@ExperimentalStdlibApi
public class DeepRecursiveFunction<T, R> {
    internal val block: suspend DeepRecursiveScope<T, R>.(T) -> R
}

```

Initiates a call to this deep recursive function, forming a root of the call tree. This operator should not be used from inside of [DeepRecursiveScope] as it uses the call stack slot for initial recursive invocation. From inside of [DeepRecursiveScope] use

```

callRecursive[DeepRecursiveScope.callRecursive].
operator fun <T, R> DeepRecursiveFunction<T, R>.invoke(value: T): R =
    DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()

```

A scope class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to recursively call this function or another [DeepRecursiveFunction] putting the call activation frame on the heap. @param [T] function parameter type. @param [R] function result type.

```

@RestrictsSuspension@SinceKotlin("1.4")@ExperimentalStdlibApi
public sealed class

```

```
DeepRecursiveScope<T, R> {
    /**
     * Makes recursive call to this [DeepRecursiveFunction] function putting
     the call activation frame on the heap,
     * as opposed to the actual call stack that is used by a regular recursive

```

```
call.
    public abstract suspend fun callRecursive(value: T): R
    /**
     * Makes call to the specified
     [DeepRecursiveFunction] function putting the call activation frame on the heap,
     * as opposed to the actual call

```

```
stack that is used by a regular call.
    public abstract suspend fun <U, S> DeepRecursiveFunction<U,
S>.callRecursive(value:

```

```
U): S
    @Deprecated(
        level = DeprecationLevel.ERROR,
        message = "'invoke' should not be called from DeepRecursiveScope."
    )
    fun invoke(value: T): R {
        println("Use 'callRecursive' to do recursion in the heap instead of the call stack.")
        replaceWith = ReplaceWith("this.callRecursive(value)")
    }
}

```

```

@Suppress("UNUSED_PARAMETER")
public operator fun DeepRecursiveFunction<*, *>.invoke(value: Any?): Nothing =
    throw UnsupportedOperationException("Should not be called from DeepRecursiveScope")
}
// ===== Implementation

```

```

=====
@ExperimentalStdlibApi
private typealias DeepRecursiveFunctionBlock = suspend DeepRecursiveScope<*, *>.(Any?) -> Any?
@SharedImmutable
private val UNDEFINED_RESULT = Result.success(COROUTINE_SUSPENDED)
@Suppress("UNCHECKED_CAST")
@ExperimentalStdlibApi
private class DeepRecursiveScopeImpl<T, R> {
    block: suspend DeepRecursiveScope<T, R>.(T) -> R,
    value: T
}

```

```

: DeepRecursiveScope<T, R>(), Continuation<R> {\n // Active function block\n private var function:
DeepRecursiveFunctionBlock = block as DeepRecursiveFunctionBlock\n // Value to call function with\n
private var value: Any? = value\n // Continuation of the current call\n private var cont: Continuation<Any?>?
= this as Continuation<Any?>\n // Completion result (completion of the whole call stack)\n private var result:
Result<Any?> = UNDEFINED_RESULT\n override val context: CoroutineContext\n get() =
EmptyCoroutineContext\n override fun resumeWith(result: Result<R>) {\n this.cont = null\n this.result
= result\n }\n override suspend fun callRecursive(value: T): R = suspendCoroutineUninterceptedOrReturn {
cont ->\n // calling the same function that is currently active\n this.cont = cont as Continuation<Any?>\n
this.value = value\n COROUTINE_SUSPENDED\n }\n override suspend fun <U, S>
DeepRecursiveFunction<U,
S>.callRecursive(value: U): S = suspendCoroutineUninterceptedOrReturn { cont ->\n // calling another
recursive function\n val function = block as DeepRecursiveFunctionBlock\n
with(this@DeepRecursiveScopeImpl) {\n val currentFunction = this.function\n if (function !==
currentFunction) {\n // calling a different function -- create a trampoline to restore function ref\n
this.function = function\n this.cont = crossFunctionCompletion(currentFunction, cont as
Continuation<Any?>)\n } else {\n // calling the same function -- direct\n this.cont = cont
as Continuation<Any?>\n }\n this.value = value\n }\n COROUTINE_SUSPENDED\n }\n\n private fun crossFunctionCompletion(\n currentFunction: DeepRecursiveFunctionBlock,\n cont:
Continuation<Any?>\n ): Continuation<Any?> = Continuation(EmptyCoroutineContext)
{\n this.function = currentFunction\n // When going back from a trampoline we cannot just call
cont.resume (stack usage!)\n // We delegate the cont.resumeWith(it) call to runCallLoop\n this.cont =
cont\n this.result = it\n }\n\n @Suppress("UNCHECKED_CAST")\n fun runCallLoop(): R {\n while
(true) {\n // Note: cont is set to null in DeepRecursiveScopeImpl.resumeWith when the whole computation
completes\n val result = this.result\n val cont = this.cont\n ?: return (result as
Result<R>).getOrThrow() // done -- final result\n // The order of comparison is important here for that case of
rogue class with broken equals\n if (UNDEFINED_RESULT == result) {\n // call "function" with
"value" using "cont" as completion\n val r = try {\n // This is block.startCoroutine(this,
value, cont)\n function.startCoroutineUninterceptedOrReturn(this,
value, cont)\n } catch (e: Throwable) {\n cont.resumeWithException(e)\n
continue\n }\n // If the function returns without suspension -- calls its continuation immediately\n
if (r !== COROUTINE_SUSPENDED)\n cont.resume(r as R)\n } else {\n // we
returned from a crossFunctionCompletion trampoline -- call resume here\n this.result =
UNDEFINED_RESULT // reset result back\n cont.resumeWith(result)\n }\n }\n }\n\n"}\n
* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated
file. DO NOT
EDIT!\n\n@file:kotlin.jvm.JvmName("NumbersKt")\n@file:kotlin.jvm.JvmMultifileClass\npackage
kotlin\n\nimport
kotlin.math.sign\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to
negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other:
Byte): Int = \n this.toInt().floorDiv(other.toInt())\n\n**\n * Calculates the remainder of flooring division of this
value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute
value less than the absolute value of the divisor.\n *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic
inline fun Byte.mod(other: Byte): Byte = \n this.toInt().mod(other.toInt()).toByte()\n\n** Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Short): Int = \n
this.toInt().floorDiv(other.toInt())\n\n**\n * Calculates the remainder of flooring

```

division of this value by the other value. \n \* \n \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor. \n

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Short): Short = \n    this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Int): Int = \n    this.toInt().floorDiv(other)\n\n/** \n * Calculates the remainder of flooring division of this value by the other value. \n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor. \n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Int): Int = \n    this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Long): Long = \n    this.toLong().floorDiv(other)\n\n/** \n * Calculates the remainder of flooring division of this value by the other value. \n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor. \n *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Long): Long = \n    this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Byte): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/** \n * Calculates the remainder of flooring division of this value by the other value. \n * \n * The result is either
```

zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor. \n

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Byte): Byte = \n    this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Short): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/** \n * Calculates the remainder of flooring division of this value by the other value. \n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor. \n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Short): Short = \n    this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Int): Int = \n    this.toInt().floorDiv(other)\n\n/** \n * Calculates the remainder of flooring division of this value by the other value. \n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor. \n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Int): Int = \n    this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Long): Long = \n    this.toLong().floorDiv(other)\n\n/** \n * Calculates the remainder of flooring division of this value by the other value. \n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor. \n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Long): Long = \n    this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Byte): Int = \n    this.floorDiv(other.toInt())\n\n/** \n * Calculates the remainder of flooring division of this value by the other value. \n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor. \n *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Byte): Byte = \n    this.mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic
```

```

inline fun Int.floorDiv(other: Short): Int = \n  this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
_divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Short): Short = \n
this.mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is
closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun
Int.floorDiv(other: Int): Int {\n  var q = this / other\n  if (this xor other < 0 && q * other != this) q-- \n  return
q\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is
either zero or has the same sign as the _divisor_ and has the absolute value less
than the absolute value of the divisor.\n *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun
Int.mod(other: Int): Int {\n  val r = this % other\n  return r + (other and (((r xor other) and (r or -r)) shr
31))\n}\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative
infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Long): Long
= \n  this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the
other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less
than the absolute value of the divisor.\n *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun
Int.mod(other: Long): Long = \n  this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring
the result to an integer that is closer to negative infinity.
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic
inline fun Long.floorDiv(other: Byte): Long = \n  this.floorDiv(other.toLong())\n\n/**\n * Calculates the
remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign
as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Byte): Byte = \n
this.mod(other.toLong()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun
Long.floorDiv(other: Short): Long = \n  this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
_divisor_ and has the absolute value less than the absolute value
of the divisor.\n *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Short):
Short = \n  this.mod(other.toLong()).toShort()\n\n/** Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun
Long.floorDiv(other: Int): Long = \n  this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring
division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and
has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Int): Int = \n
this.mod(other.toLong()).toInt()\n\n/** Divides this value by the other value, flooring the result to an integer that is
closer to negative infinity. *\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun
Long.floorDiv(other:
Long): Long {\n  var q = this / other\n  if (this xor other < 0 && q * other != this) q-- \n  return q\n}\n\n/**\n *
Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has
the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Long): Long {\n  val r
= this % other\n  return r + (other and (((r xor other) and (r or -r)) shr 63))\n}\n\n/**\n * Calculates the remainder
of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
_divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be
represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result
can be less than or _equal to_ the absolute

```

```

value of the divisor.\n * \n @SinceKotlin("1.5")\n @kotlin.internal.InlineOnly\n public inline fun Float.mod(other:
Float): Float { \n    val r = this % other\n    return if (r != 0.0.toFloat() && r.sign != other.sign) r + other else
r\n }\n\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is
either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the
divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this
case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n
*\n @SinceKotlin("1.5")\n @kotlin.internal.InlineOnly\n public inline fun Float.mod(other: Double): Double = \n
this.toDouble().mod(other)\n\n /**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is either zero or has the same sign as the _divisor_ and
has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly,
it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or
_equal to_ the absolute value of the divisor.\n
*\n @SinceKotlin("1.5")\n @kotlin.internal.InlineOnly\n public inline fun Double.mod(other: Float): Double = \n
this.mod(other.toDouble())\n\n /**\n * Calculates the remainder of
flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the
_divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be
represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result
can be less than or _equal to_ the absolute value of the divisor.\n
*\n @SinceKotlin("1.5")\n @kotlin.internal.InlineOnly\n public inline fun Double.mod(other: Double): Double { \n
    val r = this % other\n    return if (r != 0.0 && r.sign != other.sign) r + other else r\n }\n\n", /*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n\n package kotlin\n\n import
kotlin.internal.InlineOnly\n\n /**\n * Returns a hash code value for the object or zero if the object is `null`.\n * \n *
@see Any.hashCode\n * \n @SinceKotlin("1.3")\n @InlineOnly\n public inline fun Any?.hashCode(): Int =
this?.hashCode() ?: 0\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n\n package kotlin\n\n /**\n * Represents a version of the Kotlin standard library.\n
*\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and not
greater
than 255 ([MAX_COMPONENT_VALUE]).\n * \n * @constructor Creates a version from all three components.\n
*\n @SinceKotlin("1.1")\n public class KotlinVersion(val major: Int, val minor: Int, val patch: Int) :
Comparable<KotlinVersion> { \n    /**\n * Creates a version from [major] and [minor] components, leaving
[patch] component zero.\n * \n public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n private val
version = versionOf(major, minor, patch)\n\n private fun versionOf(major: Int, minor: Int, patch: Int): Int { \n
require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in
0..MAX_COMPONENT_VALUE) { \n        \n "Version components are out of range: $major.$minor.$patch"\n
}\n    return major.shl(16) + minor.shl(8) + patch\n } \n\n /**\n * Returns the string representation of this
version\n * \n override fun toString(): String = "$major.$minor.$patch"\n\n override fun equals(other:
Any?):
Boolean { \n    if (this === other) return true\n    val otherVersion = (other as? KotlinVersion) ?: return false\n
return this.version == otherVersion.version\n } \n\n override fun hashCode(): Int = version\n\n override fun
compareTo(other: KotlinVersion): Int = version - other.version\n\n /**\n * Returns `true` if this version is not
less than the version specified\n * with the provided [major] and [minor] components.\n * \n public fun
isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\n    this.major > major ||
(this.major == major &&\n        this.minor >= minor)\n\n /**\n * Returns `true` if this version is not less
than the version specified\n * with the provided [major], [minor] and [patch] components.\n * \n public fun
isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)\n
this.major > major || (this.major

```

```

== major &&\n      (this.minor > minor || this.minor == minor &&\n      this.patch >= patch))\n\n
companion object {\n    /**\n     * Maximum value a version component can have, a constant value 255.\n
*/\n    // NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in
JS\n    public const val MAX_COMPONENT_VALUE = 255\n\n    /**\n     * Returns the current version of
the Kotlin standard library.\n    */\n    @kotlin.jvm.JvmField\n    public val CURRENT: KotlinVersion =
KotlinVersionCurrentValue.get()\n    }\n\n// this class is ignored during classpath normalization when
considering whether to recompile dependencies in Kotlin build\nprivate object KotlinVersionCurrentValue {\n
    @kotlin.jvm.JvmStatic\n    fun get(): KotlinVersion = KotlinVersion(1, 6, 10) // value is written here automatically
during build\n}"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("LateinitKt")\n@file:Suppress("unused")\n\npackage kotlin\n\nimport
kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false`
otherwise.\n * \n * Cannot be used in an inline function, to avoid binary compatibility issues.\n
*/\n\n@SinceKotlin("1.2")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral
KProperty0<*>.isInitialized: Boolean\n    get() = throw NotImplementedError("Implementation is
intrinsic")\n}"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("LazyKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin\n\nimport kotlin.reflect.KProperty\n\n/**\n * Represents a value with lazy initialization.\n * \n * To create an
instance of [Lazy] use the [lazy] function.\n * \n * public interface Lazy<out T> {\n    /**\n     * Gets the lazily
initialized value of the current Lazy instance.\n     * \n     * Once the value was initialized it must not change during the rest
of lifetime of this Lazy instance.\n    */\n    public val value: T\n\n    /**\n     * Returns `true` if a value for this Lazy
instance has been already initialized, and `false` otherwise.\n     * \n     * Once this function has returned `true` it stays
`true` for the rest of lifetime of this Lazy instance.\n    */\n    public fun isInitialized(): Boolean\n}\n\n/**\n *
Creates a new instance of the [Lazy] that is already initialized with the specified [value].\n * \n * public fun <T>
lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\n\n/**\n * An extension to delegate
a read-only property of type [T] to an instance of [Lazy].\n * \n * This extension allows to use instances of Lazy for
property delegation:\n * \n * val property: String by lazy { initializer }\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline
operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value\n\n/**\n * Specifies how a
[Lazy] instance synchronizes initialization among multiple threads.\n * \n * public enum class LazyThreadSafetyMode
{\n\n    /**\n     * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\n     * \n
*/\n    SYNCHRONIZED,\n\n    /**\n     * Initializer function can be called several times on concurrent access to
uninitialized [Lazy] instance value,\n     * but only the first returned value will be used as the value of [Lazy]
instance.\n     * \n */\n    PUBLICATION,\n\n    /**\n     * No locks are used to synchronize an access to the [Lazy]
instance value; if the instance is accessed from multiple threads, its behavior
is undefined.\n     * \n * This mode should not be used unless the [Lazy] instance is guaranteed never to be
initialized from more than one thread.\n     * \n */\n    NONE,\n}\n\ninternal object UNINITIALIZED_VALUE\n\n//
internal to be called from lazy in JS\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>,\n
Serializable {\n    private var initializer: (() -> T)? = initializer\n    private var _value: Any? =
UNINITIALIZED_VALUE\n\n    override val value: T\n        get() {\n            if (_value ===
UNINITIALIZED_VALUE) {\n                _value = initializer!!()\n                initializer = null\n            }\n
        }\n\n    @Suppress("UNCHECKED_CAST")\n        return _value as T\n    }\n\n    override fun isInitialized():
Boolean = _value !== UNINITIALIZED_VALUE\n\n    override fun toString(): String = if (isInitialized())
value.toString() else "Lazy value not initialized yet."\n\n    private fun writeReplace(): Any =
InitializedLazyImpl(value)\n}\n\ninternal

```



```

class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {
    override fun isInitialized(): Boolean = true
    override fun toString(): String = value.toString()
}
/* Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("NumbersKt")
package kotlin

Counts the number of set bits in the binary representation of this [Int] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Int.countOneBits(): Int
/* Counts the number of consecutive most significant bits that are zero in the binary
representation of this [Int] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Int.countLeadingZeroBits(): Int
/* Counts
the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Int.countTrailingZeroBits(): Int
/* Returns a number having a single bit set in the position of the most
significant set bit of this [Int] number,
or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Int.takeHighestOneBit(): Int
/* Returns a number having a single bit set in the position of the least
significant set bit of this [Int] number,
or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Int.takeLowestOneBit(): Int
/* Rotates the binary representation of this [Int] number left by the specified
[bitCount] number of bits.
The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.
Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:
number.rotateLeft(-n) == number.rotateRight(n)
Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number,
or more generally
number.rotateLeft(n) == number.rotateLeft(n % 32)

@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Int.rotateLeft(bitCount: Int): Int
/* Rotates the binary representation of this [Int] number right by the
specified [bitCount] number of bits.
The least significant bits pushed out from the right side reenter the number
as the most significant bits on the left side.
Rotating the number right by a negative bit count is the same as
rotating it left by the negated bit count:
number.rotateRight(-n) == number.rotateLeft(n)
Rotating by a
multiple of [Int.SIZE_BITS] (32) returns the same number,
or more generally
number.rotateRight(n) == number.rotateRight(n % 32)

@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Int.rotateRight(bitCount: Int): Int
/* Counts the number of set bits in the binary representation of this
[Long] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect
fun Long.countOneBits(): Int
/* Counts the number of consecutive most significant bits that are zero in the
binary representation of this [Long] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Long.countLeadingZeroBits(): Int
/* Counts the number of consecutive least significant bits that are zero in
the binary representation of this [Long] number.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Long.countTrailingZeroBits(): Int
/* Returns a number having a single bit set
in the position of the most significant set bit of this [Long] number,
or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Long.takeHighestOneBit(): Long
/* Returns a number having a single bit set in the position of the least
significant set bit of this [Long] number,
or zero, if this number is zero.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public expect fun
Long.takeLowestOneBit(): Long
/* Rotates the binary representation of this [Long] number left by the

```

specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \*\n \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \*\n \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
```

Long.rotateLeft(bitCount: Int): Long\n\n\*\*\n \* Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n \*\n \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \*\n \* Rotating by a multiple of [Long.SIZE\_BITS] (64) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 64)`\n

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
```

Long.rotateRight(bitCount: Int): Long\n\n\*\*\n \* Counts the number of set bits in the binary representation of this [Byte] number.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\n\n**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n**\n * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
```

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
```

Byte.rotateLeft(bitCount: Int): Byte =\n (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\n\n\*\*\n \* Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n \*\n \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \*\n \* Rotating by a multiple of [Byte.SIZE\_BITS] (8) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 8)`\n

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
```

```

fun Byte.rotateRight(bitCount: Int): Byte = (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()

```

Counts the number of set bits in the binary representation of this [Short] number.

```

@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()

```

Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.

```

@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public inline fun Short.countLeadingZeroBits(): Int = (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)

```

Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.

```

@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public

```

```

inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()

```

Returns a number having a single bit set in the position of the most significant set bit of this [Short] number, or zero, if this number is zero.

```

@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public

```

```

inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()

```

Returns a number having a single bit set in the position of the least significant set bit of this [Short] number, or zero, if this number is zero.

```

@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public

```

```

inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()

```

Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits. The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count: `number.rotateLeft(-n) == number.rotateRight(n)` Rotating by a multiple of [Short.SIZE\_BITS] (16) returns the same number, or more generally `number.rotateLeft(n) == number.rotateLeft(n % 16)`

```

@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class)
public fun

```

```

Short.rotateLeft(bitCount: Int): Short = (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()

```

Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits. The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side. Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count: `number.rotateRight(-n) == number.rotateLeft(n)` Rotating by a multiple of [Short.SIZE\_BITS] (16) returns the same number, or more generally `number.rotateRight(n) == number.rotateRight(n % 16)`

```

@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class)
public fun

```

```

Short.rotateRight(bitCount: Int): Short = (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()

```

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```

package kotlin
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind
@kotlin.internal.InlineOnly
@SinceKotlin("1.2")
@Suppress("INVISIBLE_MEMBER", "INVISIBLE_REFERENCE")
@RequireKotlin("1.2.30", level = DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
public inline fun

```

```

suspend(noinline block: suspend () -> R): suspend () -> R = block

```

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```

@file:kotlin.jvm.JvmName("TuplesKt")
package kotlin

```

Represents a generic pair of two values. There is no meaning attached to values in this class, it can be used for any purpose. Pair exhibits value semantics, i.e. two pairs are equal if both components are equal. An example of decomposing it into

```

values:\n * @sample samples.misc.Tuples.pairDestructuring\n * \n * @param A type of the first value.\n * @param
B type of the second value.\n * @property first First value.\n * @property second Second value.\n * @constructor
Creates a new instance of Pair.\n * \n public data
class Pair<out A, out B>(\n public val first: A,\n public val second: B)\n) : Serializable {\n\n /**\n * Returns
string representation of the [Pair] including its [first] and [second] values.\n * \n public override fun toString():
String = \"($first, $second)\"\n}\n\n/**\n * Creates a tuple of type [Pair] from this and [that].\n * \n * This can be
useful for creating [Map] literals with less noise, for example:\n * @sample
samples.collections.Maps.Instantiation.mapFromPairs\n * \n public infix fun <A, B> A.to(that: B): Pair<A, B> =
Pair(this, that)\n\n/**\n * Converts this pair into a list.\n * @sample samples.misc.Tuples.pairToList\n * \n public
fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**\n * Represents a triad of values\n * \n * There is
no meaning attached to values in this class, it can be used for any purpose.\n * Triple exhibits value semantics, i.e.
two triples are equal if all three components are equal.\n * An example of decomposing it
into values:\n * @sample samples.misc.Tuples.tripleDestructuring\n * \n * @param A type of the first value.\n *
@param B type of the second value.\n * @param C type of the third value.\n * @property first First value.\n *
@property second Second value.\n * @property third Third value.\n * \n public data class Triple<out A, out B, out
C>(\n public val first: A,\n public val second: B,\n public val third: C)\n) : Serializable {\n\n /**\n *
Returns string representation of the [Triple] including its [first], [second] and [third] values.\n * \n public
override fun toString(): String = \"($first, $second, $third)\"\n}\n\n/**\n * Converts this triple into a list.\n *
@sample samples.misc.Tuples.tripleToList\n * \n public fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first,
second, third)\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\nimport
kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n
*\n * \n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public class UIntRange(start:
UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n override val start:
UInt get() = first\n override val endInclusive: UInt get() = last\n\n override fun contains(value: UInt): Boolean =
first <= value && value <= last\n\n /**\n * Checks if the range is empty.\n * \n * The range is empty if its
start value is greater than the end value.\n * \n override fun isEmpty(): Boolean = first > last\n\n override fun
equals(other: Any?): Boolean =\n other is UIntRange && (isEmpty() && other.isEmpty()) ||\n first ==
other.first && last == other.last\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 *
first.toInt() + last.toInt())\n\n override fun toString(): String = \"$first..$last\"\n\n companion object {\n /**
An empty range of values of type UInt. *\n public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE,
UInt.MIN_VALUE)\n }\n}\n\n/**\n * A progression of values of type `UInt`.\n
*\n * \n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public open class
UIntProgression\n internal constructor(\n start: UInt,\n endInclusive: UInt,\n step: Int)\n) : Iterable<UInt> {\n
init {\n if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n if (step
== Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to
avoid overflow on negation.")\n }\n\n /**\n * The first element in the progression.\n * \n public val first:
UInt = start\n\n /**\n * The last element in the progression.\n * \n public val last: UInt =
getProgressionLastElement(start,
endInclusive, step)\n\n /**\n * The step of the progression.\n * \n public val step: Int = step\n\n final
override fun iterator(): Iterator<UInt> = UIntProgressionIterator(first, last, step)\n\n /**\n * Checks if the
progression is empty.\n * \n * Progression with a positive step is empty if its first element is greater than the last
element.\n * Progression with a negative step is empty if its first element is less than the last element.\n * \n
public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?):
Boolean =\n other is UIntProgression && (isEmpty() && other.isEmpty()) ||\n first == other.first &&
last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31
* first.toInt() + last.toInt()) + step.toInt())\n\n override fun toString(): String = if (step > 0) \"$first..$last

```

```

step $step)" else \"$first downTo $last step ${-step})"\n\n    companion object {\n        /**\n         * Creates
UIntProgression within the specified bounds of a closed range.\n         * The progression starts with the
[rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n         * In order
to go backwards the [step] must be negative.\n         *\n         * [step] must be greater than `Int.MIN_VALUE` and
not equal to zero.\n         */\n        public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int):
UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n    }\n}\n\n/**\n * An iterator over a progression
of values of type `UInt`.\n * @property step the number by which the value is incremented on each step.\n */\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION_ERROR")\nprivate class UIntProgressionIterator(first:
UInt, last: UInt, step: Int) : UIntIterator() {\n    private val finalElement = last\n    private
var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step = step.toUInt() // use 2-
complement math for negative steps\n    private var next = if (hasNext) first else finalElement\n\n    override fun
hasNext(): Boolean = hasNext\n\n    override fun nextUInt(): UInt {\n        val value = next\n        if (value ==
finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n        }
else {\n            next += step\n        }\n        return value\n    }\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.collections\n\n/**\n * An iterator over a sequence of values of type `UByte`. *\n */\n@Deprecated("This class is not
going to be stabilized and is to be removed soon.", level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class UByteIterator : Iterator<UByte> {\n
final override fun next() = nextUByte()\n    /**\n     * Returns the next value in the sequence without boxing. *\n
 */\n    public abstract fun nextUByte(): UByte\n}\n\n/**\n * An iterator over a sequence of values of type `UShort`.
*\n */\n@Deprecated("This class is not going to be stabilized and is to be removed soon.", level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class UShortIterator : Iterator<UShort> {\n
final override fun next() = nextUShort()\n    /**\n     * Returns the next value in the sequence without boxing. *\n
 */\n    public abstract fun nextUShort(): UShort\n}\n\n/**\n * An iterator over a sequence of values of type `UInt`.
*\n */\n@Deprecated("This class is not going to be stabilized and is to be removed soon.", level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class UIntIterator : Iterator<UInt> {\n    final
override fun next() = nextUInt()\n\n    /**\n     * Returns the next value in the sequence without boxing. *\n
 */\n    public abstract fun nextUInt(): UInt\n}\n\n/**\n * An iterator over a sequence of values of type `ULong`. *\n
 */\n@Deprecated("This class is not going to be stabilized
and is to be removed soon.", level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class
ULongIterator : Iterator<ULong> {\n    final override fun next() = nextULong()\n    /**\n     * Returns the next value in
the sequence without boxing. *\n     */\n    public abstract fun nextULong(): ULong\n}\n\n"/**\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin.ranges\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `ULong`.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class
ULongRange(start:
ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {\n    override
val start: ULong get() = first\n    override val endInclusive: ULong get() = last\n\n    override fun contains(value:
ULong): Boolean = first <= value && value <= last\n    /**\n     * Checks if the range is empty.\n     */\n    * The
range is empty if its start value is greater than the end value.\n     */\n    override fun isEmpty(): Boolean = first >
last\n\n    override fun equals(other: Any?): Boolean =\n        other is ULongRange && (isEmpty() &&
other.isEmpty()) ||\n        first == other.first && last == other.last\n\n    override fun hashCode(): Int =\n        if
(isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())\n\n    override fun
toString(): String = \"$first..$last"\n\n    companion object {\n        /**\n         * An empty range of values of type ULong.
*\n         */\n        public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE,

```

```

ULong.MIN_VALUE)\n } }\n\n/**\n * A progression of values of type `ULong`.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class
ULongProgression\ninternal constructor(\n start: ULong,\n endInclusive: ULong,\n step: Long)\n :
Iterable<ULong> {\n init {\n if (step == 0.toLong()) throw kotlin.IllegalArgumentException("\nStep must be
non-zero.\n")\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("\nStep must be greater
than Long.MIN_VALUE to avoid overflow on negation.\n")\n }\n\n /**\n * The first element in the
progression.\n *\n public val first: ULong = start\n\n /**\n * The last element in the progression.\n *\n
public val last: ULong = getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the
progression.\n *\n public val step: Long = step\n\n final override fun iterator(): Iterator<ULong> =
ULongProgressionIterator(first,
last, step)\n\n /**\n * Checks if the progression is empty.\n\n * Progression with a positive step is empty
if its first element is greater than the last element.\n * Progression with a negative step is empty if its first element
is less than the last element.\n *\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first <
last\n\n override fun equals(other: Any?): Boolean =\n other is ULongProgression && (isEmpty() &&
other.isEmpty()) ||\n first == other.first && last == other.last && step == other.step)\n\n override fun
hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt()) + (last xor (last shr
32)).toInt()) + (step xor (step ushr 32)).toInt())\n\n override fun toString(): String = if (step > 0) "\n$first.$last step
$step" else "\n$first downTo $last step ${-step}"\n\n companion object {\n /**\n * Creates
ULongProgression within the
specified bounds of a closed range.\n\n * The progression starts with the [rangeStart] value and goes toward
the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be
negative.\n *\n * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n *\n
public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression =
ULongProgression(rangeStart, rangeEnd, step)\n } }\n\n\n/**\n * An iterator over a progression of values of type
`ULong`.\n * @property step the number by which the value is incremented on each step.\n
*\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION_ERROR")\nprivate class
ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n private val finalElement =
last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private val step =
step.toULong() // use 2-complement
math for negative steps\n private var next = if (hasNext) first else finalElement\n\n override fun hasNext():
Boolean = hasNext\n\n override fun nextULong(): ULong {\n val value = next\n if (value ==
finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }
else {\n next += step\n }\n return value\n }\n}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.math\n\n/**\n * Returns the smaller of two
values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun min(a: UInt, b: UInt): UInt {\n return minOf(a, b)\n}\n\n/**\n * Returns the smaller of two
values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public
inline fun min(a: ULong, b: ULong): ULong {\n return minOf(a, b)\n}\n\n/**\n * Returns the greater of two
values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun max(a: UInt, b: UInt): UInt {\n return maxOf(a, b)\n}\n\n/**\n * Returns the greater of two
values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun max(a: ULong, b: ULong): ULong {\n return maxOf(a, b)\n}\n", /*\n * Copyright 2010-2021

```

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```

*\n\n@file:kotlin.jvm.JvmName("\UNumbersKt")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [UInt] number.\n *\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.countOneBits(): Int = toInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.\n *\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\n *\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n *\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n *\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n *\n *@SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n *\n *@SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\n\n/**\n * Counts the number of set bits in the binary representation of this [ULong] number.\n *\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\n *\n *@SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant

```

bits that are zero in the binary representation of this [ULong] number.\n

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countTrailingZeroBits(): Int
= toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeHighestOneBit(): ULong
= toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the
binary representation of this [ULong] number left by the specified [bitCount] number of bits.\n * The most
significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n *
Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *
`number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
```

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateLeft(bitCount:
Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n * Rotates the binary representation of this [ULong]
number right by the specified [bitCount] number
of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits
on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the
negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of
[ULong.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 64)`\n
```

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateRight(bitCount:
Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n/**\n * Counts the number of set bits in the binary
representation of this [UByte] number.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countOneBits(): Int =
toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary
representation of this [UByte]
number.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countLeadingZeroBits(): Int =
toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [UByte] number.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countTrailingZeroBits(): Int =
toByte().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [UByte] number,\n * or zero, if
this number is zero.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte =
toInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number left by
```



the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \* Rotating by a multiple of [UByte.SIZE\_BITS] (8) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateLeft(bitCount:
Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte]
number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side
reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit
count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 8)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts
the number of set bits in the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int =
toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int
= toShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero
in the binary representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int
= toShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort
= toInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort
= toInt().takeLowestOneBit().toUShort()\n\n/**\n * Rotates the binary representation
of this [UShort] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out
from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left
by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) ==
number.rotateRight(n)`\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or
more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount:
Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this
[UShort] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the
right side reenter the number as the most significant
bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the
negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of
```

```

[UShort.SIZE_BITS] (16) returns the same number, or more generally
number.rotateRight(n % 16)
*/
@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun UShort.rotateRight(bitCount:
Int): UShort = toShort().rotateRight(bitCount).toUShort()
"/
*/
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Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.
*/
package kotlin.internal
private fun
differenceModulo(a: UInt, b: UInt, c: UInt): UInt {
    val ac = a % c
    val bc = b % c
    return if (ac >= bc) ac -
bc
else ac - bc + c
}
private fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {
    val ac = a % c
    val bc = b % c
    return if (ac >= bc) ac - bc else ac - bc + c
}
"/
*/
Calculates the final element of a
bounded arithmetic progression, i.e. the last element of the progression which is in the range
from [start] to [end]
in case of a positive [step], or from [end] to [start] in case of a negative
[step].
No validation on passed
parameters is performed. The given parameters should satisfy the condition:
- either `step > 0` and `start <=
end`,
- or `step < 0` and `start >= end`.
@param start first element of the progression
@param end
ending bound for the progression
@param step increment, or difference of successive elements in the
progression
@return the final element of the progression
@suppress
*/
@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: UInt, end: UInt, step:
Int):
UInt = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())
    step <
0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())
    else -> throw
kotlin.IllegalArgumentException("Step is zero.")
}
"/
*/
Calculates the final element of a bounded
arithmetic progression, i.e. the last element of the progression which is in the range
from [start] to [end] in case
of a positive [step], or from [end] to [start] in case of a negative
[step].
No validation on passed
parameters is performed. The given parameters should satisfy the condition:
- either `step > 0` and `start <=
end`,
- or `step < 0` and `start >= end`.
@param start first element of the progression
@param end
ending bound for the progression
@param step increment, or difference of successive elements in the
progression
@return the final element of the progression
@suppress
*/
@PublishedApi
@SinceKotlin("1.3")
internal
fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {
    step > 0 -> if (start >=
end) end else end - differenceModulo(end, start, step.toULong())
    step < 0 -> if (start <= end) end else end +
differenceModulo(start, end, (-step).toULong())
    else -> throw kotlin.IllegalArgumentException("Step is
zero.")
}
"/
*/
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Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
@file:kotlin.jvm.JvmName("UStringsKt") // string representation of unsigned numbers
package
kotlin.text
"/
*/
Returns a string representation of this [Byte] value in the specified [radix].
@throws
IllegalArgumentException when [radix] is not a valid radix for number to string conversion.
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public
/*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)
"/
*/
Returns a string
representation of this [Short] value in the specified [radix].
@throws
IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public
/*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)
"/
*/
Returns a string
representation of this [Int] value in the specified [radix].
@throws
IllegalArgumentException when [radix] is
not a valid radix for number to string conversion.
*/
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public
/*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)
"/
*/
Returns a string
representation of this [Long] value in the specified [radix].

```

```

*\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun
ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n * Parses the string
as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun String.toUByte():
UByte = toUByteOrNull() ?: numberFormatException(this)\n * Parses the string as a signed [UByte] number and
returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n *
@throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun
String.toUByte(radix:
Int): UByte = toUByteOrNull(radix) ?: numberFormatException(this)\n * Parses the string as a [UShort]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun
String.toUShort(): UShort = toUShortOrNull() ?: numberFormatException(this)\n * Parses the string as a
[UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public
fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatException(this)\n * Parses the
string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of
a number.\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun
String.toUInt(): UInt = toUIntOrNull() ?: numberFormatException(this)\n * Parses the string as an [UInt] number
and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun
String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatException(this)\n * Parses the string as a
[ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun String.toULong():
ULong = toULongOrNull() ?: numberFormatException(this)\n * Parses the string as a [ULong] number and
returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun
String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatException(this)\n * Parses
the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun
String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\n * Parses the string as an [UByte] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public
fun String.toUByteOrNull(radix: Int): UByte? {
    val int = this.toUIntOrNull(radix) ?: return null
    if (int > UByte.MAX_VALUE) return null
    return int.toUByte()\n * Parses the string as an [UShort] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n * @SinceKotlin("1.5")\n * @WasExperimental(ExperimentalUnsignedTypes::class)\n * public fun
String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n * Parses the string as an [UShort] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n * @throws

```

```

IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUShortOrNull(radix: Int): UShort? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int >
UShort.MAX_VALUE) return null\n    return int.toUShort()\n}\n\n/**\n * Parses the string as an [UInt] number and returns the result\n * or `null` if the string is not a valid representation
of a number.\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [UInt] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUIntOrNull(radix: Int): UInt? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0)
return null\n\n    val limit: UInt = UInt.MAX_VALUE\n    val start: Int\n\n    val firstChar = this[0]\n    if (firstChar
< '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix = 119304647u // limit / 36\n\n    var limitBeforeMul =
limitForMaxRadix\n    val uradix = radix.toUInt()\n    var result = 0u\n    for (i in start until length) {\n        val digit
= digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if
(limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n\n                if (result >
limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= uradix\n\n        val beforeAdding = result\n        result += digit.toUInt()\n        if (result <
beforeAdding) return null // overflow has happened\n    }\n\n    return result\n}\n\n/**\n * Parses the string as an
[ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong]
number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toULongOrNull(radix: Int): ULong? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length ==
0) return null\n\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n\n    val firstChar = this[0]\n    if
(firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix = 512409557603043100uL // limit / 36\n\n    var limitBeforeMul =
limitForMaxRadix\n    val uradix = radix.toULong()\n    var result = 0uL\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result
> limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit /
uradix\n\n                if (result > limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= uradix\n\n        val beforeAdding = result\n        result +=
digit.toUInt()\n        if (result < beforeAdding) return null // overflow has happened\n    }\n\n    return
result\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned
types, including those types themselves.\n *\n * Usages of such API will be reported as warnings unless an explicit
opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`,\n * or with the `-Xopt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n *\n * It's recommended to propagate the
experimental status to the API that depends on unsigned types by annotating it with this annotation.\n
*\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.WARNING)\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS, ANNOTATION_CLASS,

```

```

PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
PROPERTY_GETTER, PROPERTY_SETTER,
TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic
annotation class ExperimentalUnsignedTypes\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MathKt")\n\npackage
kotlin.math\n\n// constants, can't use them from nativeMath as they are not constants there\n/** Ratio of the
circumference of a circle to its diameter, approximately 3.14159. */\n@SinceKotlin("1.2")\npublic const val PI:
Double = 3.141592653589793\n/** Base of the natural logarithms, approximately 2.71828.
*/\n@SinceKotlin("1.2")\npublic const val E: Double = 2.718281828459045\n\n// region =====
Double Math =====\n\n/** Computes the sine of the angle [x]
given in radians.\n * \n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic
expect fun sin(x: Double): Double\n\n/** Computes the cosine of the angle [x] given in radians.\n * \n * Special
cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun cos(x: Double):
Double\n\n/** Computes the tangent of the angle [x] given in radians.\n * \n * Special cases:\n * - `tan(NaN|+Inf|-
Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun tan(x: Double): Double\n\n/** Computes the arc
sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n * \n * Special
cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun
asin(x: Double): Double\n\n/** Computes the arc cosine of the value [x];\n * the returned value is an angle in
the range from `0.0` to `PI` radians.\n * \n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is
`NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun acos(x: Double): Double\n\n/**
* Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2`
radians.\n * \n * Special cases:\n * - `atan(NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic expect fun atan(x:
Double): Double\n\n/** Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the
rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle
in the range from `-PI` to `PI` radians.\n * \n * Special cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is
`0.0` for `x > 0` and `PI` for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`\n * - `atan2(y,
+Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI`
for `-Inf < y < 0`\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n * - `atan2(+Inf, x)` is `PI/2` for
finite `x`\n * \n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n
*/\n@SinceKotlin("1.2")\npublic expect fun atan2(y: Double, x: Double): Double\n\n/** Computes the
hyperbolic sine of the value [x].\n * \n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n *
- `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin("1.2")\npublic expect fun sinh(x: Double): Double\n\n/** Computes
the hyperbolic cosine of the value [x].\n * \n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is
`+Inf`\n */\n@SinceKotlin("1.2")\npublic expect fun cosh(x: Double): Double\n\n/** Computes the hyperbolic
tangent of the value [x].\n * \n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-
Inf)` is `-1.0`\n */\n@SinceKotlin("1.2")\npublic expect fun tanh(x: Double): Double\n\n/** Computes the
inverse hyperbolic sine of the value [x].\n * \n * The returned value is `y` such that `sinh(y)
== x`\n * \n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is
`-Inf`\n */\n@SinceKotlin("1.2")\npublic expect fun asinh(x: Double): Double\n\n/** Computes the inverse
hyperbolic cosine of the value [x].\n * \n * The returned value is positive `y` such that `cosh(y) == x`\n * \n * Special
cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n
*/\n@SinceKotlin("1.2")\npublic expect fun acosh(x: Double): Double\n\n/** Computes the inverse hyperbolic
tangent of the value [x].\n * \n * The returned value is `y` such that `tanh(y) == x`\n * \n * Special cases:\n * -
`tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-
1.0)` is `-Inf`\n */\n@SinceKotlin("1.2")\npublic expect fun atanh(x: Double): Double\n

```

1.0) is `-Inf` if any of arguments is infinite  
`sqrt(x^2 + y^2)` without intermediate overflow or underflow.  
Special cases:  
- returns `+Inf` if any of arguments is infinite  
- returns `NaN` if any of arguments is `NaN` and the other is not infinite

`hypot(x: Double, y: Double): Double`  
Computes the positive square root of the value `[x]`.  
Special cases:  
- `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`

`exp(x: Double): Double`  
Computes Euler's number `e` raised to the power of the value `[x]`.  
Special cases:  
- `exp(NaN)` is `NaN`  
- `exp(+Inf)` is `+Inf`  
- `exp(-Inf)` is `0.0`

`expm1(x: Double): Double`  
Computes `exp(x) - 1`.  
This function can be implemented to produce more precise result for `[x]` near zero.  
Special cases:  
- `expm1(NaN)` is `NaN`  
- `expm1(+Inf)` is `+Inf`  
- `expm1(-Inf)` is `-1.0`  
@see `[exp]` function

`log(x: Double, base: Double): Double`  
Computes the logarithm of the value `[x]` to the given `[base]`.  
Special cases:  
- `log(x, b)` is `NaN` if either `x` or `b` are `NaN`  
- `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`  
- `log(+Inf, +Inf)` is `NaN`  
- `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`  
- `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`  
See also logarithm functions for common fixed bases: `[ln]`, `[log10]` and `[log2]`.

`ln(x: Double): Double`  
Computes the natural logarithm (base `E`) of the value `[x]`.  
Special cases:  
- `ln(NaN)` is `NaN`  
- `ln(x)` is `NaN` when `x < 0.0`  
- `ln(+Inf)` is `+Inf`  
- `ln(0.0)` is `-Inf`

`log10(x: Double): Double`  
Computes the common logarithm (base 10) of the value `[x]`.  
@see `[ln]` function for special cases.

`log2(x: Double): Double`  
Computes the binary logarithm (base 2) of the value `[x]`.  
@see `[ln]` function for special cases.

`ln1p(x: Double): Double`  
Computes `ln(x + 1)`.  
This function can be implemented to produce more precise result for `[x]` near zero.  
Special cases:  
- `ln1p(NaN)` is `NaN`  
- `ln1p(x)` is `NaN` where `x < -1.0`  
- `ln1p(-1.0)` is `-Inf`  
- `ln1p(+Inf)` is `+Inf`  
@see `[ln]` function  
@see `[expm1]` function

`ln1p(x: Double): Double`  
Rounds the given value `[x]` to an integer towards positive infinity.  
@return the smallest double value that is greater than or equal to the given value `[x]` and is a mathematical integer.  
Special cases:  
- `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`ceil(x: Double): Double`  
Rounds the given value `[x]` to an integer towards negative infinity.  
@return the largest double value that is smaller than or equal to the given value `[x]` and is a mathematical integer.  
Special cases:  
- `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`floor(x: Double): Double`  
Rounds the given value `[x]` to an integer towards zero.  
@return the value `[x]` having its fractional part truncated.  
Special cases:  
- `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`truncate(x: Double): Double`  
Rounds the given value `[x]` towards the closest integer with ties rounded towards even integer.  
Special cases:  
- `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`round(x: Double): Double`  
Returns the absolute value of the given value `[x]`.  
Special cases:  
- `abs(NaN)` is `NaN`  
@see `absoluteValue` extension property for `[Double]`

`abs(x: Double): Double`  
Returns the sign of the given value `[x]`:  
- `-1.0` if the value is negative,  
- zero if the value is zero,  
- `1.0` if the value is positive  
Special case:  
- `sign(NaN)` is `NaN`

`sign(x: Double): Double`  
Returns the smaller of two values.  
If either value is `NaN`, then the result is `NaN`.

`min(a: Double, b: Double): Double`  
Returns the greater of two values.  
If either value is `NaN`, then the result is `NaN`.

`max(a: Double, b: Double): Double`

Double\n\n// extensions\n\n/\*\*\n \* Raises this value to the power [x].\n \* Special cases:\n \* - `b.pow(0.0)` is `1.0`\n \* - `b.pow(1.0) == b`\n \* - `b.pow(NaN)` is `NaN`\n \* - `NaN.pow(x)` is `NaN` for `x != 0.0`\n \* - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n \* - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.pow(x: Double): Double\n\n/\*\*\n \* Raises this value to the integer power [n].\n \* See the other overload of [pow] for details.\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.pow(n: Int): Double\n\n/\*\*\n \* Returns the absolute value of this value.\n \* Special cases:\n \* - `NaN.absoluteValue` is `NaN`\n \* - @see abs function\n \*/\n@SinceKotlin("1.2")\npublic expect val Double.absoluteValue: Double\n\n/\*\*\n \* Returns the sign of this value:\n \* - `-1.0` if the value is negative,\n \* - zero if the value is zero,\n \* - `1.0` if the value is positive\n \* Special case:\n \* - `NaN.sign` is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect val Double.sign: Double\n\n/\*\*\n \* Returns this value with the sign bit same as of the [sign] value.\n \* If [sign] is `NaN` the sign of the result is undefined.\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.withSign(sign: Double): Double\n\n/\*\*\n \* Returns this value with the sign bit same as of the [sign] value.\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.withSign(sign: Int): Double\n\n/\*\*\n \* Returns the ulp (unit in the last place) of this value.\n \* An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n \* Special Cases:\n \* - `NaN.ulp` is `NaN`\n \* - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n \* - `0.0.ulp` is `Double.MIN\_VALUE`\n \*/\n@SinceKotlin("1.2")\npublic expect val Double.ulp: Double\n\n/\*\*\n \* Returns the [Double] value nearest to this value in direction of positive infinity.\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.nextUp(): Double\n\n/\*\*\n \* Returns the [Double] value nearest to this value in direction of negative infinity.\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.nextDown(): Double\n\n/\*\*\n \* Returns the [Double] value nearest to this value in direction from this value towards the value [to].\n \* Special cases:\n \* - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n \* - `x.nextTowards(x) == x`\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.nextTowards(to: Double): Double\n\n/\*\*\n \* Rounds this [Double] value to the nearest integer and converts the result to [Int].\n \* Ties are rounded towards positive infinity.\n \* Special cases:\n \* - `x.roundToInt() == Int.MAX\_VALUE` when `x > Int.MAX\_VALUE`\n \* - `x.roundToInt() == Int.MIN\_VALUE` when `x < Int.MIN\_VALUE`\n \* - @throws IllegalArgumentException when this value is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.roundToInt(): Int\n\n/\*\*\n \* Rounds this [Double] value to the nearest integer and converts the result to [Long].\n \* Ties are rounded towards positive infinity.\n \* Special cases:\n \* - `x.roundToLong() == Long.MAX\_VALUE` when `x > Long.MAX\_VALUE`\n \* - `x.roundToLong() == Long.MIN\_VALUE` when `x < Long.MIN\_VALUE`\n \* - @throws IllegalArgumentException when this value is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect fun Double.roundToLong(): Long\n\n// endregion\n\n// region ===== Float Math\n\n/\*\*\n \* Computes the sine of the angle [x] given in radians.\n \* Special cases:\n \* - `sin(NaN|+Inf|-Inf)` is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect fun sin(x: Float): Float\n\n/\*\*\n \* Computes the cosine of the angle [x] given in radians.\n \* Special cases:\n \* - `cos(NaN|+Inf|-Inf)` is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect fun cos(x: Float): Float\n\n/\*\*\n \* Computes the tangent of the angle [x] given in radians.\n \* Special cases:\n \* - `tan(NaN|+Inf|-Inf)` is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect fun tan(x: Float): Float\n\n/\*\*\n \* Computes the arc sine of the value [x];\n \* the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n \* Special cases:\n \* - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect fun asin(x: Float): Float\n\n/\*\*\n \* Computes the arc cosine of the value [x];\n \* the returned value is an angle in the range from `0.0` to `PI` radians.\n \* Special cases:\n \* - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect fun acos(x: Float): Float\n\n/\*\*\n \* Computes the arc tangent of the value [x];\n \* the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n \* Special cases:\n \* - `atan(NaN)` is `NaN`\n \*/\n@SinceKotlin("1.2")\npublic expect fun atan(x: Float): Float\n\n/\*\*\n \* Returns the angle `theta` of the polar coordinates `(r, theta)` that

correspond to the rectangular coordinates  $(x, y)$  by computing the arc tangent of the value  $y / x$ ; the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.

**Special cases:**

- $\text{atan2}(0.0, 0.0)$  is  $0.0$
- $\text{atan2}(0.0, x)$  is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$
- $\text{atan2}(-0.0, x)$  is  $-0.0$  for  $x > 0$  and  $-\pi$  for  $x < 0$
- $\text{atan2}(y, +\text{Inf})$  is  $0.0$  for  $0 < y < +\text{Inf}$  and  $-0.0$  for  $-\text{Inf} < y < 0$
- $\text{atan2}(y, -\text{Inf})$  is  $\pi$  for  $0 < y < +\text{Inf}$  and  $-\pi$  for  $-\text{Inf} < y < 0$
- $\text{atan2}(y, 0.0)$  is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$
- $\text{atan2}(+\text{Inf}, x)$  is  $\pi/2$  for finite  $x > 0$  and  $-\pi/2$  for finite  $x < 0$
- $\text{atan2}(\text{NaN}, x)$  and  $\text{atan2}(y, \text{NaN})$  is  $\text{NaN}$

```

@SinceKotlin("1.2")
public expect fun atan2(y: Float, x: Float): Float

```

Computes the hyperbolic sine of the value  $x$ .

**Special cases:**

- $\text{sinh}(\text{NaN})$  is  $\text{NaN}$
- $\text{sinh}(+\text{Inf})$  is  $+\text{Inf}$
- $\text{sinh}(-\text{Inf})$  is  $-\text{Inf}$

```

@SinceKotlin("1.2")
public expect fun sinh(x: Float): Float

```

Computes the hyperbolic cosine of the value  $x$ .

**Special cases:**

- $\text{cosh}(\text{NaN})$  is  $\text{NaN}$
- $\text{cosh}(+\text{Inf})$  is  $+\text{Inf}$
- $\text{cosh}(-\text{Inf})$  is  $+\text{Inf}$

```

@SinceKotlin("1.2")
public expect fun cosh(x: Float): Float

```

Computes the hyperbolic tangent of the value  $x$ .

**Special cases:**

- $\text{tanh}(\text{NaN})$  is  $\text{NaN}$
- $\text{tanh}(+\text{Inf})$  is  $1.0$
- $\text{tanh}(-\text{Inf})$  is  $-1.0$

```

@SinceKotlin("1.2")
public expect fun tanh(x: Float): Float

```

Computes the inverse hyperbolic sine of the value  $x$ . The returned value is  $y$  such that  $\text{sinh}(y) == x$ .

**Special cases:**

- $\text{asinh}(\text{NaN})$  is  $\text{NaN}$
- $\text{asinh}(+\text{Inf})$  is  $+\text{Inf}$
- $\text{asinh}(-\text{Inf})$  is  $-\text{Inf}$

```

@SinceKotlin("1.2")
public expect fun asinh(x: Float): Float

```

Computes the inverse hyperbolic cosine of the value  $x$ . The returned value is positive  $y$  such that  $\text{cosh}(y) == x$ .

**Special cases:**

- $\text{acosh}(\text{NaN})$  is  $\text{NaN}$
- $\text{acosh}(x)$  is  $\text{NaN}$  when  $x < 1$
- $\text{acosh}(+\text{Inf})$  is  $+\text{Inf}$

```

@SinceKotlin("1.2")
public expect fun acosh(x: Float): Float

```

Computes the inverse hyperbolic tangent of the value  $x$ . The returned value is  $y$  such that  $\text{tanh}(y) == x$ .

**Special cases:**

- $\text{atanh}(\text{NaN})$  is  $\text{NaN}$
- $\text{atanh}(x)$  is  $\text{NaN}$  when  $x > 1$  or  $x < -1$
- $\text{atanh}(1.0)$  is  $+\text{Inf}$
- $\text{atanh}(-1.0)$  is  $-\text{Inf}$

```

@SinceKotlin("1.2")
public expect fun atanh(x: Float): Float

```

Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or underflow.

**Special cases:**

- returns  $+\text{Inf}$  if any of arguments is infinite
- returns  $\text{NaN}$  if any of arguments is  $\text{NaN}$  and the other is not infinite

```

@SinceKotlin("1.2")
public expect fun hypot(x: Float, y: Float): Float

```

Computes the positive square root of the value  $x$ .

**Special cases:**

- $\text{sqrt}(x)$  is  $\text{NaN}$  when  $x < 0$  or  $x$  is  $\text{NaN}$

```

@SinceKotlin("1.2")
public expect fun sqrt(x: Float): Float

```

Computes Euler's number  $e$  raised to the power of the value  $x$ .

**Special cases:**

- $\text{exp}(\text{NaN})$  is  $\text{NaN}$
- $\text{exp}(+\text{Inf})$  is  $+\text{Inf}$
- $\text{exp}(-\text{Inf})$  is  $0.0$

```

@SinceKotlin("1.2")
public expect fun exp(x: Float): Float

```

Computes  $\text{exp}(x) - 1$ .

This function can be implemented to produce more precise result for  $x$  near zero.

**Special cases:**

- $\text{expm1}(\text{NaN})$  is  $\text{NaN}$
- $\text{expm1}(+\text{Inf})$  is  $+\text{Inf}$
- $\text{expm1}(-\text{Inf})$  is  $-1.0$

@see [exp] function.

```

@SinceKotlin("1.2")
public expect fun expm1(x: Float): Float

```

Computes the logarithm of the value  $x$  to the given  $base$ .

**Special cases:**

- $\log(x, b)$  is  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$
- $\log(x, b)$  is  $\text{NaN}$  when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$
- $\log(+\text{Inf}, +\text{Inf})$  is  $\text{NaN}$
- $\log(+\text{Inf}, b)$  is  $+\text{Inf}$  for  $b > 1$  and  $-\text{Inf}$  for  $b < 1$
- $\log(0.0, b)$  is  $-\text{Inf}$  for  $b > 1$  and  $+\text{Inf}$  for  $b > 1$

See also logarithm functions for common fixed bases: [ln], [log10] and [log2].

```

@SinceKotlin("1.2")
public expect fun log(x: Float, base: Float): Float

```

Computes the natural logarithm (base  $E$ ) of the value  $x$ .

**Special cases:**

- $\ln(\text{NaN})$  is  $\text{NaN}$
- $\ln(x)$  is  $\text{NaN}$  when  $x < 0.0$
- $\ln(+\text{Inf})$  is  $+\text{Inf}$
- $\ln(0.0)$  is  $-\text{Inf}$

```

@SinceKotlin("1.2")
public expect fun ln(x: Float): Float

```

Computes the common logarithm (base 10) of the value  $x$ .

@see [ln] function for special cases.

```

@SinceKotlin("1.2")
public expect fun log10(x: Float): Float

```

Computes the binary logarithm (base 2) of the value  $x$ .

@see [ln] function for special cases.

```

@SinceKotlin("1.2")
public expect fun log2(x: Float): Float

```

Computes  $\ln(a + 1)$ .

This function can be implemented to produce more precise result for  $x$  near zero.

**Special cases:**

- $\ln1p(\text{NaN})$  is  $\text{NaN}$
- $\ln1p(x)$  is  $\text{NaN}$  where  $x < -1.0$
- $\ln1p(-1.0)$  is  $-\text{Inf}$
- $\ln1p(+\text{Inf})$  is  $+\text{Inf}$

@see [ln] function

@see [expm1] function

```

@SinceKotlin("1.2")
public expect fun ln1p(x: Float): Float

```

Rounds the given value  $x$  to an



integer towards positive infinity.\n\n \* @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n\n \* Special cases:\n\n \* - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun ceil(x: Float): Float\n\n \* \n\n \* Rounds the given value [x] to an integer towards negative infinity.\n\n \* @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n\n \* Special cases:\n\n \* - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun floor(x: Float): Float\n\n \* \n\n \* Rounds the given value [x] to an integer towards zero.\n\n \* @return the value [x] having its fractional part truncated.\n\n \* Special cases:\n\n \* - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun truncate(x: Float): Float\n\n \* \n\n \* Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n\n \* Special cases:\n\n \* - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun round(x: Float): Float\n\n \* \n\n \* Returns the absolute value of the given value [x].\n\n \* Special cases:\n\n \* - `abs(NaN)` is `NaN`\n\n \* @see absoluteValue extension property for [Float]\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun abs(x: Float): Float\n\n \* \n\n \* Returns the sign of the given value [x]:\n\n \* - `-1.0` if the value is negative,\n\n \* - zero if the value is zero,\n\n \* - `1.0` if the value is positive\n\n \* \n\n \* Special case:\n\n \* - `sign(NaN)` is `NaN`\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun sign(x: Float): Float\n\n \* \n\n \* Returns the smaller of two values.\n\n \* If either value is `NaN`, then the result is `NaN`. \n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun min(a: Float, b: Float): Float\n\n \* \n\n \* Returns the greater of two values.\n\n \* If either value is `NaN`, then the result is `NaN`. \n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun max(a: Float, b: Float): Float\n\n \* \n\n \* extensions\n\n \* \n\n \* Raises this value to the power [x].\n\n \* Special cases:\n\n \* - `b.pow(0.0)` is `1.0`\n\n \* - `b.pow(1.0) == b`\n\n \* - `b.pow(NaN)` is `NaN`\n\n \* - `NaN.pow(x)` is `NaN` for `x != 0.0`\n\n \* - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n\n \* - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun Float.pow(x: Float): Float\n\n \* \n\n \* Raises this value to the integer power [n].\n\n \* See the other overload of [pow] for details.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun Float.pow(n: Int): Float\n\n \* \n\n \* Returns the absolute value of this value.\n\n \* Special cases:\n\n \* - `NaN.absoluteValue` is `NaN`\n\n \* @see abs function\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect val Float.absoluteValue: Float\n\n \* \n\n \* Returns the sign of this value:\n\n \* - `-1.0` if the value is negative,\n\n \* - zero if the value is zero,\n\n \* - `1.0` if the value is positive\n\n \* \n\n \* Special case:\n\n \* - `NaN.sign` is `NaN`\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect val Float.sign: Float\n\n \* \n\n \* Returns this value with the sign bit same as of the [sign] value.\n\n \* If [sign] is `NaN` the sign of the result is undefined.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun Float.withSign(sign: Float): Float\n\n \* \n\n \* Returns this value with the sign bit same as of the [sign] value.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun Float.withSign(sign: Int): Float\n\n \* \n\n \* Rounds this [Float] value to the nearest integer and converts the result to [Int].\n\n \* Ties are rounded towards positive infinity.\n\n \* \n\n \* Special cases:\n\n \* - `x.roundToInt() == Int.MAX\_VALUE` when `x > Int.MAX\_VALUE`\n\n \* - `x.roundToInt() == Int.MIN\_VALUE` when `x < Int.MIN\_VALUE`\n\n \* @throws IllegalArgumentException when this value is `NaN`\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun Float.roundToInt(): Int\n\n \* \n\n \* Rounds this [Float] value to the nearest integer and converts the result to [Long].\n\n \* Ties are rounded towards positive infinity.\n\n \* \n\n \* Special cases:\n\n \* - `x.roundToLong() == Long.MAX\_VALUE` when `x > Long.MAX\_VALUE`\n\n \* - `x.roundToLong() == Long.MIN\_VALUE` when `x < Long.MIN\_VALUE`\n\n \* @throws IllegalArgumentException when this value is `NaN`\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun Float.roundToLong(): Long\n\n \* \n\n \* // endregion\n\n \* \n\n \* ===== Integer Math =====\n\n \* \n\n \* Returns the absolute value of the given value [n].\n\n \* Special cases:\n\n \* - `abs(Int.MIN\_VALUE)` is `Int.MIN\_VALUE` due to an overflow\n\n \* @see absoluteValue extension property for [Int]\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun abs(n: Int): Int\n\n \* \n\n \* Returns the smaller of two values.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun min(a: Int, b: Int): Int\n\n \* \n\n \* Returns the greater of two values.\n\n \* \n\n \* @SinceKotlin("1.2")\n\n \* public expect fun max(a: Int, b: Int): Int

```

*/n@SinceKotlin("1.2")\npublic expect fun max(a: Int, b: Int): Int\n\n/**\n * Returns the absolute value of this value.\n * Special cases:\n * - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n * @see abs function\n */n@SinceKotlin("1.2")\npublic expect val Int.absoluteValue: Int\n\n/**\n * Returns the sign of this value:\n * - `1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n */n@SinceKotlin("1.2")\npublic expect val Int.sign: Int\n\n/**\n * Returns the absolute value of the given value [n].\n * Special cases:\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n * @see absoluteValue extension property for [Long]\n */n@SinceKotlin("1.2")\npublic expect fun abs(n: Long): Long\n\n/**\n * Returns the smaller of two values.\n */n@SinceKotlin("1.2")\npublic expect fun min(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n */n@SinceKotlin("1.2")\npublic expect fun max(a: Long, b: Long): Long\n\n/**\n * Returns the absolute value of this value.\n * Special cases:\n * - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n * @see abs function\n */n@SinceKotlin("1.2")\npublic expect val Long.absoluteValue: Long\n\n/**\n * Returns the sign of this value:\n * - `1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n */n@SinceKotlin("1.2")\npublic expect val Long.sign: Int\n\n/n//
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A,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9OT,OAgPO,W;O;KAZPX,C;sFAYA,yB;MAAA,wE;MAGPA,+D;MAhP  
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AhB,iD;UAAgB,cAAhB,e;UACI,UAtPoD,WAsP1C,CAAY,OAAZ,C;UOx9UP,U;UADP,YP09Ue,WO19UH,WP09UwB,GO19UxB,C;UACL,IAAI,aAAJ,C;YACH,aPw9UuC,gB;YAA5B,W0v9UX,aPu9UgC,GOv9UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPo9UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAxPT,OA0PO,W;O;KAnQX,C;sFAYA,yB;MAAA,wE;MA0PA,+D;MA1PA,yC;QASW,kBAAU,oB;QA0PD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UA3PqD,WA2P3C,CAAY,OAAZ,C;UOz+UP,U;UADP,YP2+Ue,WO3+UH,WP2+UwB,GO3+UxB,C;UACL,IAAI,aAAJ,C;YACH,aPy+UuC,gB;YAA5B,W0x+UX,aPw+UgC,GOx+UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPq+UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA7PT,OA+PO,W;O;KAXQX,C;sFAYA,yB;MAAA,wE;MA+PA,+D;MA/P A,yC;QASW,kBAAU,oB;QA+PD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UAhQsD,WAgQ5C,CAAY,OAAZ,C;UO1/UP,U;UADP,YP4/Ue,WO5/UH,WP4/UwB,GO5/UxB,C;UACL,IAAI,aAAJ,C;YACH,aP0/UuC,gB;YAA5B,W0z/UX,aPy/UgC,GOz/UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPs/UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAIQT,OAoQO,W;O;KA7QX,C;sFAYA,yB;MAAA,wE;MAoQA,+D;MApQA,yC;QASW,kBAAU,oB;QAoQD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UArQuD,WAqQ7C,CAAY,OAAZ,C;UO3gVP,U;UADP,YP6gVe,WO7gVH,WP6gVwB,GO7gVxB,C;UACL,IAAI,aAAJ,C;YACH,aP2gVuC,gB;YAA5B,W01gVX,aP0gVgC,GO1gVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPugVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAvQT,OAYQO,W;O;KAIRX,C;sFAYA,yB;MAAA,wE;MAyQA,oC;MAAA,+D;MAAA,gC;MAzQA,yC;QASW,kBAAU,oB;QAYQD,Q;QAaHb,iD;UAAgB,cAAhB,0B;UACI,UA1QoD,WA0Q1C,CAAY,oBAAZ,C;UO5hVP,U;UADP,YP8hVe,WO9hVH,WP8hVwB,GO9hVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4hVuC,gB;YAA5B,W03hVX,aP2hVgC,GO3hVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwhVA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QA5QT,OA8QO,W;O;KAvRX,C;sFAYA,yB;MAAA,wE;MA8QA,+D;MA9QA,yD;QAUW,kBAAU,oB;QA8QD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UA/QiD,WA+QvC,CAAY,OAAZ,C;UO9iVP,U;UADP,YPgjVe,WOhjVH,WPgjVwB,GOhjVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8iVuC,gB;YAA5B,W07iVX,aP6iVgC,GO7iVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0iVA,iB;UACA,IAAK,WAjRyD,cAiRrD,CAAe,OAAf,CAAJ,C;;QAJRT,OAmRO,W;O;KA7RX,C;sFAaA,yB;MAAA,wE;MAmRA,+D;MAmRA,yD;QAUW,kBAAU,oB;QAmRD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UApRiD,WAoRvC,CAAY,OAAZ,C;UOhkVP,U;UADP,YPkkVe,W0lkVH,WPkkVwB,GOlkVxB,C;UACL,IAAI,aAAJ,C;YACH,aPkgVuC,gB;YAA5B,W0jVX,aP+jVgC,GOjVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP4jVA,iB;UACA,IAAK,WAtRyD,cAsRrD,CAAe,OAAf,CAAJ,C;;QAtRT,OAwRO,W;O;KAISX,C;uFAaA,yB;MAAA,wE;MAwRA,+D;MAxRA,yD;QAUW,kBAAU,oB;QAwRD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UAzRiD,WAYRvC,CAAY,OAAZ,C;UOlVp,U;UADP,YPolVe,W0plVH,WP0lVwB,GOplVxB,C;UACL,IAAI,aAAJ,C;YACH,aPklVuC,gB;YAA5B,W0jlVX,aPllVgC,GOjlVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP8kVA,iB;UACA,IAAK,WA3RyD,cA2RrD,CAAe,OAAf,CAAJ,C;;QA3RT,OA6RO,W;O;KAvSX,C;uFAaA,yB;MAAA,wE;MA6RA,+D;MA7RA,yD;QAUW,kBAAU,oB;QA6RD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UA9RiD,WA8RvC,CAAY,OAAZ,C;UOpMVP,U;UADP,YPsmVe,W0tmVH,WPsmVwB,GOtmVxB,C;UACL,IAAI,aAAJ,C;YACH,aPomVuC,gB;YAA5B,W0nmVX,aPmmVgC,GOnmVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgmVA,iB;UACA,IAAK,WAhSyD,cAgSrD,CAAe,OAAf,CAAJ,C;;QAhST,OAKSO,W;O;KA5SX,C;uFAaA,yB;MAAA,wE;MAkSA,+D;MAISA,yD;QAUW,kBAAU,oB;QAKSD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UAnSiD,WAmSvC,CAAY,OAAZ,C;UOtnVP,U;UADP,YPwnVe,W0xnVH,WPwnVwB,GOxnVxB,C;UACL,IAAI,aAAJ,C;YACH,aPsnVuC,gB;YAA5B,W0rnVX,aPqnVgC,GOrnVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPknVA,iB;UACA,IAAK,WArSyD,cAqSrD,CAAe,OAAf,CAAJ,C;;QArST,OAuSO,W;O;KAjTX,C;uFAaA,yB;MAAA,wE;MAuSA,+D;MAvSA,yD;QAUW,kBAAU,oB;QAUd,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UAxSiD,WAwSvC,CAAY,OAAZ,C;UOxoVP,U;UADP,YP0oVe,WO1oVH,WP0oVwB,GO1oVxB,C;UACL,IAAI,aAAJ,C;YACH,aPwoVuC,gB;YAA5B,W0voVX,aPvoVgC,GOvoVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPooVA,iB;UACA,IAAK,WA1SyD,cA0SrD,CAAe,OAAf,CAAJ,C;;QA1ST,OA4SO,W;O;KAiTX,C;uFAaA,yB;MAAA,wE;MA4SA,+D;MA5SA,yD;QAUW,kBAAU,oB;QA4SD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UA7SiD,WA6SvC,CAAY,OAAZ,C;UO1pVP,U;UADP,YP4pVe,WO5pVH,WP4pVwB,GO5pVxB,C;UACL,IAAI,aAAJ,C;YACH,aP0pVuC,gB;YAA5B,W0zpVX,aPypVgC,GOzpVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPspVA,iB;UACA,IAAK,WA/SyD,cA+SrD,CAAe,OAAf,CAAJ,C;;QA/ST,OAiTO,W;O;KA3TX,C;uFAaA,yB;MAAA,wE;MAiTA,+D;MAjTA,yD;QAUW,kBAAU,oB;QAiTD,Q;QAaHb,iD;UAAgB,cAAhB,e;UACI,UAiTiD,WakTvC,CAAY,OAAZ,C;UO5qVP,U;UADP,YP8qVe,WO9qVH,WP8qVwB,GO9qVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4qVuC,gB;YAA5B,W03qVX,aP2qVgC,GO3qVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwq

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CA,e;;YAEA,c;;UPm8UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+  
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gE;MAAA,uC;QAOW,kBAaAa,eAAa,gBAAb,C;QA4HP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,W  
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QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UACZ, IAAI, KAAK, SAAT, C; YAAoB, K; UACpB, IAAK, WAAI, UAAU, UAAK, UAAL, EAAK, kBAAL, SAAV, EAAqB, OAArB, CAAJ, C; QAET, OAAO, I; O; KAFx, C; +EAKBA, yB; MAAA, kF; MAAA, gE; MkbZ6rBA, iB; MIBy6rBA, 8C; QAWoB, UAEY, M; QAL5B, gBAAgB, gB; QACHB, WAAW, ekB56rBJ, MAAO, KIB46rBsB, wBAAN, KAAM, EAAwB, EAAxB, CkB56rBtB, EIB46rBmD, SkB56rBnD, CIB46rBH, C; QACX, QAAQ, C; QACQ, uB; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UACZ, IAAI, KAAK, SAAT, C; YAAoB, K; UACpB, IAAK, WAAI, UAAU, UAAK, UAAL, EAAK, kBAAL, SAAV, EAAqB, OAArB, CAAJ, C; QAET, OAAO, I; O; KAFx, C; +EAKBA, yB; MAAA, kF; MAAA, gE; Mkb37rBA, iB; MIB27rBA, 8C; QAWoB, UAEY, M; QAL5B, gBAAgB, gB; QACHB, WAAW, ekB97rBJ, MAAO, KIB87rBsB, wBAAN, KAAM, EAAwB, EAAxB, CkB97rBtB, EIB87rBmD, SkB97rBnD, CIB87rBH, C; QACX, QAAQ, C; QACQ, uB; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UACZ, IAAI, KAAK, SAAT, C; YAAoB, K; UACpB, IAAK, WAAI, UAAU, UAAK, UAAL, EAAK, kBAAL, SAAV, EAAqB, OAArB, CAAJ, C; QAET, OAAO, I; O; KAFx, C; +EAKBA, yB; MAAA, kF; MAAA, gE; Mkb78rBA, iB; MIB68rBA, 8C; QAWoB, UAEY, M; QAL5B, gBAAgB, gB; QACHB, WAAW, ekBh9rBJ, MAAO, KIBg9rBsB, wBAAN, KAAM, EAAwB, EAAxB, CkBh9rBtB, EIBg9rBmD, SkBh9rBnD, CIBg9rBH, C; QACX, QAAQ, C; QACQ, uB; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UACZ, IAAI, KAAK, SAAT, C; YAAoB, K; UACpB, IAAK, WAAI, UAAU, UAAK, UAAL, EAAK, kBAAL, SAAV, EAAqB, OAArB, CAAJ, C; QAET, OAAO, I; O; KAFx, C; +EAKBA, yB; MAAA, kF; MAAA, gE; Mkb/9rBA, iB; MIB+9rBA, 8C; QAWoB, UAEY, M; QAL5B, gBAAgB, gB; QACHB, WAAW, ekBI+rBJ, MAAO, KIBk+rBsB, wBAAN, KAAM, EAAwB, EAAxB, CkBI+rBtB, EIBk+rBmD, SkBI+rBnD, CIBk+rBH, C; QACX, QAAQ, C; QACQ, uB; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UACZ, IAAI, KAAK, SAAT, C; YAAoB, K; UACpB, IAAK, WAAI, UAAU, UAAK, UAAL, EAAK, kBAAL, SAAV, EAAqB, OAArB, CAAJ, C; QAET, OAAO, I; O; KAFx, C; +EAKBA, yB; MAAA, kF; MAAA, gE; Mkbj/rBA, iB; MIBi/rBA, 8C; QAWoB, UAEY, M; QAL5B, gBAAgB, gB; QACHB, WAAW, ekBp/rBJ, MAAO, KIBo/rBsB, wBAAN, KAAM, EAAwB, EAAxB, CkBp/rBtB, EIBo/rBmD, SkBp/rBnD, CIBo/rBH, C; QACX, QAAQ, C; QACQ, uB; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UACZ, IAAI, KAAK, SAAT, C; YAAoB, K; UACpB, IAAK, WAAI, UAAU, UAAK, UAAL, EAAK, kBAAL, SAAV, EAAqB, OAArB, CAAJ, C; QAET, OAAO, I; O; KAFx, C; +EAKBA, yB; MAAA, kF; MAAA, gE; MAAA, oC; MkbngsBA, iB; MIBmgsBA, 8C; QAWoB, UAEY, M; QAL5B, gBAAgB, gB; QACHB, WAAW, ekBtgsBJ, MAAO, KIBsgsBsB, wBAAN, KAAM, EAAwB, EAAxB, CkBgtsBtB, EIBsgsBmD, SkBgtsBnD, CIBsgsBH, C; QACX, QAAQ, C; QACQ, uB; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UACZ, IAAI, KAAK, SAAT, C; YAAoB, K; UACpB, IAAK, WAAI, UAAU, sBAAK, UAAL, EAAK, kBAAL, UAAV, EAAqB, OAArB, CAAJ, C; QAET, OAAO, I; O; KAFx, C; IAKBA, kC; MAwFI, WkBVmsBO, MAAO, KIBumsBG, gBkBVmsBH, EIBshsBH, KAIFk, OkBVmsBf, C; MIBwmsBd, WAAW, iBAaA, IAAb, C; MACX, aAAU, CAAV, MAaKB, IAAIB, M; QACI, IAAK, WApFqB, GAoFP, UAAK, CAAL, CApFO, EAAnB, KAoFqB, CAAM, CAAN, CApFF, CAoFrB, C; MApFT, OAsFO, I; K; IAnFX, kC; MA8FI, WkBVnsBO, MAAO, KIBunsBG, gBkBVnsBH, EIBgisBH, KAUFk, OkBVnsBf, C; MIBwnsBd, WAAW, iBAaA, IAAb, C; MACX, aAAU, CAAV, MAaKB, IAAIB, M; QACI, IAAK, WA1FqB, GA0FP, UAAK, CAAL, CA1FO, EAAnB, KA0FqB, CAAM, CAAN, CA1FF, CA0FrB, C; MA1FT, OA4FO, I; K; IAzFX, kC; MAoGI, WkBVosBO, MAAO, KIBuosBG, gBkBVosBH, EIB0isBH, KA6Fk, OkBVosBf, C; MIBwosBd, WAAW, iBAaA, IAAb, C; MACX, aAAU, CAAV, MAaKB, IAAIB, M; QACI, IAAK, WAhGqB, GAgGP, UAAK, CAAL, CAhGO, EAAnB, KAgGqB, CAAM, CAAN, CAhGF, CAgGrB, C; MAhGT, OAkGO, I; K; IA/FX, kC; MA0GI, WkBVpsBO, MAAO, KIBupsBG, gBkBVpsBH, EIBojsBH, KAmGk, OkBVpsBf, C; MIBwpsBd, WAAW, iBAaA, IAAb, C; MACX, aAAU, CAAV, MAaKB, IAAIB, M; QACI, IAAK, WA1GqB, GAsGP, UAAK, CAAL, CA1GO, EAAnB, KA4GqB, CAAM, CAAN, CA5GF, CA4GrB, C; MA5GT, OA8GO, I; K; IA3GX, kC; MAsHI, WkBVrsBO, MAAO, KIBursBG, gBkBVrsBH, EIBwksBH, KA+Gk, OkBVrsBf, C; MIBwrsBd, WAAW, iBAaA, IAAb, C; MACX, aAAU, CAAV, MAaKB, IAAIB, M; QACI, IAAK, WA1HqB, GAKHP, UAAK, CAAL, CAIHO, EAAnB, KAKHqB, CAAM, CAAN, CAIHF, CAkHrB, C; MAIHT, OAoHO, I; K; IAjHX, kC; MA4HI, WkBVssBO, MAAO, KIBussBG, gBkBVssBH, EIBklsBH, KAqHk, OkBVssBf, C; MIBwssBd, WAAW, iBAaA, IAAb, C; MACX, aAAU, CAAV, MAaKB, IAAIB, M; QACI, IAAK, WAxHqB, GAwHP, UAAK, CAAL, CAxHO, EAAnB, KAwhqB, CAAM, CAAN, CAxHF, CAwHrB, C; MAxHT, OA0HO, I; K; IAvhX, kC; MAkII, WkBVtsBO, MAAO, KIButsBG, gBkBVtsBH, EIB4lsBH, KA2Hk, OkBVtsBf, C; MIBwtsBd, WAAW, iBAaA, IAAb, C; MACX, aAAU, CAAV, MAaKB, IAAIB, M; QACI, IAAK, WA9HqB, GA8HP, sBAAK, CAAL, EA9HO, EA

8HE, YA9HrB, KA8HqB, CAAM, CAAN, EA9HF, CA8HrB, C;; MA9HT, OAgIO, I; K; +EA7HX, yB; MAAA, gE; MkB  
msBA, iB; MIBqmsBA, 8C; QAQI, WkBVmsBO, MAAO, KIBumsBG, gBkVmsBH, ElBumsBS, KAAM, OkBvmsBf, C;  
QIBwmsBd, WAAW, eAAa, IAAb, C; QACX, aAAU, CAAV, MAakB, IAAIB, M; UACI, IAAK, WAAI, UAAU, UAAK,  
CAAL, CAAV, EAAM, MAAM, CAAN, CAAnB, CAAJ, C;; QAET, OAAO, I; O; KAbX, C; +EAgBA, yB; MAAA, gE; M  
kBrnsBA, iB; MIBqnsBA, 8C; QAQI, WkBVnsBO, MAAO, KIBunsBG, gBkVnsBH, ElBunsBS, KAAM, OkBvnsBf, C; Q  
IBwnsBd, WAAW, eAAa, IAAb, C; QACX, aAAU, CAAV, MAakB, IAAIB, M; UACI, IAAK, WAAI, UAAU, UAAK, CA  
AL, CAAV, EAAM, MAAM, CAAN, CAAnB, CAAJ, C;; QAET, OAAO, I; O; KAbX, C; +EAgBA, yB; MAAA, gE; MkB  
rosBA, iB; MIBqosBA, 8C; QAQI, WkBVosBO, MAAO, KIBuosBG, gBkVosBH, ElBuosBS, KAAM, OkBvosBf, C; QIB  
wosBd, WAAW, eAAa, IAAb, C; QACX, aAAU, CAAV, MAakB, IAAIB, M; UACI, IAAK, WAAI, UAAU, UAAK, CAA  
L, CAAV, EAAM, MAAM, CAAN, CAAnB, CAAJ, C;; QAET, OAAO, I; O; KAbX, C; +EAgBA, yB; MAAA, gE; MkB  
rpsBA, iB; MIBqpsBA, 8C; QAQI, WkBVpsBO, MAAO, KIBupsBG, gBkVpsBH, ElBupsBS, KAAM, OkBvpsBf, C; QIBwp  
sBd, WAAW, eAAa, IAAb, C; QACX, aAAU, CAAV, MAakB, IAAIB, M; UACI, IAAK, WAAI, UAAU, UAAK, CAAL, C  
AAV, EAAM, MAAM, CAAN, CAAnB, CAAJ, C;; QAET, OAAO, I; O; KAbX, C; +EAgBA, yB; MAAA, gE; MkB  
rqsBA, iB; MIBqqsBA, 8C; QAQI, WkBVqsBO, MAAO, KIBuqsBG, gBkVqsBH, ElBuqsBS, KAAM, OkBvqsBf, C; QIBwqsBd  
, WAAW, eAAa, IAAb, C; QACX, aAAU, CAAV, MAakB, IAAIB, M; UACI, IAAK, WAAI, UAAU, UAAK, CAAL, CAA  
V, EAAM, MAAM, CAAN, CAAnB, CAAJ, C;; QAET, OAAO, I; O; KAbX, C; +EAgBA, yB; MAAA, gE; MkB  
rrsBA, iB; MIBqrsBA, 8C; QAQI, WkBVrsBO, MAAO, KIBursBG, gBkVrsBH, ElBursBS, KAAM, OkBvrsBf, C; QIBwrsBd, WAA  
W, eAAa, IAAb, C; QACX, aAAU, CAAV, MAakB, IAAIB, M; UACI, IAAK, WAAI, UAAU, UAAK, CAAL, CAAV, EA  
AM, MAAM, CAAN, CAAnB, CAAJ, C;; QAET, OAAO, I; O; KAbX, C; +EAgBA, yB; MAAA, gE; MkB  
rrsBA, iB; MIBq  
ssBA, 8C; QAQI, WkBVssBO, MAAO, KIBussBG, gBkVssBH, ElBussBS, KAAM, OkBvssBf, C; QIBwssBd, WAAW, e  
AAa, IAAb, C; QACX, aAAU, CAAV, MAakB, IAAIB, M; UACI, IAAK, WAAI, UAAU, UAAK, CAAL, CAAV, EAAM  
, MAAM, CAAN, CAAnB, CAAJ, C;; QAET, OAAO, I; O; KAbX, C; +EAgBA, yB; MAAA, gE; MAAA, oC; MkB  
rtsBA, iB; MIBqtsBA, 8C; QAQI, WkBVtsBO, MAAO, KIButsBG, gBkVtsBH, ElButsBS, KAAM, OkBvtsBf, C; QIBwtsBd, WAA  
W, eAAa, IAAb, C; QACX, aAAU, CAAV, MAakB, IAAIB, M; UACI, IAAK, WAAI, UAAU, sBAAK, CAAL, EAAV, EA  
AM, kBAAM, CAAN, EAAnB, CAAJ, C;; QAET, OAAO, I; O; KAbX, C; IA gBA, 4F; MAQ8D, yB; QAAA, YAA0B, I; M  
AAM, sB; QAAA, SAAuB, E; MAAL, uB; QAAA, UAAwB, E; MAAL, qB; QAAA, QAAa, E; MAAL, yB; QAAA, YAA0B, K  
; MAO, yB; QAAA, YAAoC, I; MAGvN, Q; MAFhB, MAO, gBAAO, MAAP, C; MACP, YAAY, C; MACZ, wBAAgB,  
SAAhB, gB; QAAGB, cAAA, SAAhB, M; QACI, IAAI, iCAAU, CAAd, C; UAAiB, MAO, gBAAO, SAAP, C; QACxB, IA  
AI, QAAQ, CAAR, IAAa, SAAS, KAA1B, C; UACW, gBAAP, MAO, EAAC, OAAAd, EAAuB, SAAvB, C;; UACJ, K;; MA  
EX, IAAI, SAAS, CAAT, IAAC, QAAQ, KAA1B, C; QAAiC, MAO, gBAAO, SAAP, C; MACxC, MAO, gBAAO, OAA  
P, C; MACP, OAAO, M; K; IAGX, 8F; MAQwD, yB; QAAA, YAA0B, I; MAAM, sB; QAAA, SAAuB, E; MAAL, uB; QAAA,  
UAAwB, E; MAAL, qB; QAAA, QAAa, E; MAAL, yB; QAAA, YAA0B, K; MAO, yB; QAAA, YAAuC, I; MAGpN, Q; MA  
FhB, MAO, gBAAO, MAAP, C; MACP, YAAY, C; MACZ, wBAAgB, SAAhB, gB; QAAGB, cAAA, SAAhB, M; QACI, I  
AAI, iCAAU, CAAd, C; UAAiB, MAO, gBAAO, SAAP, C; QACxB, IAAI, QAAQ, CAAR, IAAa, SAAS, KAA1B, C; UA  
CI, IAAI, iBAAJ, C; YACI, MAO, gBAAO, UAAU, OAAV, CAAP, C;; YAEP, MAO, gBAAO, OAAQ, WAAf, C;; UAC  
R, K;; MAEX, IAAI, SAAS, CAAT, IAAC, QAAQ, KAA1B, C; QAAiC, MAO, gBAAO, SAAP, C; MACxC, MAO, gBA  
AO, OAAp, C; MACP, OAAO, M; K; IAGX, 8F; MAQyD, yB; QAAA, YAA0B, I; MAAM, sB; QAAA, SAAuB, E; MAAL, u  
B; QAAA, UAAwB, E; MAAL, qB; QAAA, QAAa, E; MAAL, yB; QAAA, YAA0B, K; MAO, yB; QAAA, YAAwC, I; MAG  
tN, Q; MAFhB, MAO, gBAAO, MAAP, C; MACP, YAAY, C; MACZ, wBAAgB, SAAhB, gB; QAAGB, cAAA, SAAhB,  
M; QACI, IAAI, iCAAU, CAAd, C; UAAiB, MAO, gBAAO, SAAP, C; QACxB, IAAI, QAAQ, CAAR, IAAa, SAAS, KA  
A1B, C; UACI, IAAI, iBAAJ, C; YACI, MAO, gBAAO, UAAU, OAAV, CAAP, C;; YAEP, MAO, gBAAO, OAAQ, WA  
Af, C;; UACR, K;; MAEX, IAAI, SAAS, CAAT, IAAC, QAAQ, KAA1B, C; QAAiC, MAO, gBAAO, SAAP, C; MACxC,  
MAO, gBAAO, OAAp, C; MACP, OAAO, M; K; IAGX, 8F; MAQuD, yB; QAAA, YAA0B, I; MAAM, sB; QAAA, SAAu  
B, E; MAAL, uB; QAAA, UAAwB, E; MAAL, qB; QAAA, QAAa, E; MAAL, yB; QAAA, YAA0B, K; MAO, yB; QAAA, YA  
AsC, I; MAGIN, Q; MAFhB, MAO, gBAAO, MAAP, C; MACP, YAAY, C; MACZ, wBAAgB, SAAhB, gB; QAAGB, cAA  
A, SAAhB, M; QACI, IAAI, iCAAU, CAAd, C; UAAiB, MAO, gBAAO, SAAP, C; QACxB, IAAI, QAAQ, CAAR, IAAa,  
SAAS, KAA1B, C; UACI, IAAI, iBAAJ, C; YACI, MAO, gBAAO, UAAU, OAAV, CAAP, C;; YAEP, MAO, gBAAO,  
OAAQ, WAAf, C;; UACR, K;; MAEX, IAAI, SAAS, CAAT, IAAC, QAAQ, KAA1B, C; QAAiC, MAO, gBAAO, SAAP,

C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQwD,yB;QAAA,YAA0B,I;MAAM,sB;Q  
AAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;  
;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAy,C;MACZ,wBAAgB,SAAhB,gB;  
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CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MA  
AO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gB  
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;MAAO,yB;QAAA,YAAwC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAy,C;MACZ,wBAAgB,  
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YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,  
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;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ2D,yB;  
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B;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAy,  
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E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MAC  
P,YAAy,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAhB,UAAgB,SAAhB,O;QACI,IAAI,iCAAU,CAAd,C;UAAi  
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;MACI,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QAAM,oBAAMB,qBAAnB,EAAMB,KAAAnB,E;;MACtB,OA  
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AAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,oBAAMB,qBAAnB,EAAMB,KAAAnB,E;;QAC9C,OAA  
O,K;O;KARX,C;8EAWA,yC;MAYoB,Q;MADhB,kBAaKb,O;MACF,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB  
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X,yB;MAAA,sE;MZpwCA,iB;MYowCA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM

,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZhxCG,MAAO,KYgxCO,QZhxCP,EYgxCiB,CZhxCjB,C;;QYkxCd,OAAO,Q;O;KAtBX,C;iFayBA,yB;MAAA,sE;MZxyCA,iB;MYwyCA,sC;QAEI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZpzCG,MAAO,KYozCO,QZpzCP,EYozCiB,CZpzCjB,C;;QYszCd,OAAO,Q;O;KAtBX,C;iFayBA,yB;MAAA,sE;MAAA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;6FayBA,yB;MZ/0CA,iB;MY+0CA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QACHC,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZz1CG,MAAO,KYy1CO,QZz1CP,EYy1CiB,CZz1CjB,C;;QY21Cd,OAAO,Q;O;KApBX,C;6FAuBA,yB;MZj3CA,iB;MYi3CA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,OAAO,I;QACHC,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZ33CG,MAAO,KY23CO,QZ33CP,EY23CiB,CZ33CjB,C;;QY63Cd,OAAO,Q;O;KApBX,C;6FAuBA,+B;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,eAAe,SAAS,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;yFAGX,yB;MAAA,sE;MAAA,kD;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAATC,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;qGAYBA,2C;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,eAAe,SAAS,QAAS,OAAIB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAIB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAakB,CAAIB,CAAX,GAakC,CAATC,C;UACI,WAAW,C;;MAGnB,OAAO,Q;K;IAGX,iC;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MZ18CG,MAAO,KY08CE,GZ18CF,EY08CO,CZ18CP,C;;MY48Cd,OAAO,G;K;IAGX,iC;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MZx+CG,MAAO,KYw+CE,GZx+CF,EYw+CO,CZx+CP,C;;MY0+Cd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAAd,C;K;IAGX,iD;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,UAAW,SAAQ,GAAR,EAaA,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;iFAGX,+B;MAGW,sB;;QAYP,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,I;UAAP,uB;SACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,qBAAO,O;UAAP,uB;SACzB,eAhBmB,QAgBJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QAnBe,QAmBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;QAED,QAAT,QAAS,W;QACIB,qBAAO,O;;MAzBP,yB;K;6FAGJ,+B;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,I;MACHC,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,O;MACHC,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,UAAU,C;UACV,WAAW,C;;MAED,QAAT,QAAS,W;MACIB,OAAO,O;K;iFAGX,yB;MAAA,sE;MZj3CA,iB;MYi3CA,sC;QAEI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,WZ73CG,MAAO,KY63CO,QZ73CP,EY63CiB,CZ73CjB,C;;QY+3Cd,OAAO,Q;O;KAtBX,C;iFayBA,yB;MAAA,sE;MZr5CA,iB;MYq5CA,sC;QAEI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAA S,QAAS,OAAIB,C;UACR,WZj6CG,MAAO,KYi6CO,QZj6CP,EYi6CiB,CZj6CjB,C;;QYm6Cd,OAAO,Q;O;KAtBX,C;iFayBA,yB;MAAA,sE;MAAA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAIB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAIB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;QAGnB,OAAO,Q;O;KAtBX,C;6FayBA,yB;MZ57CA,iB;M

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,C;;MAEX,OAAO,G;K;iFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,  
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,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,O  
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U+BggJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sD;Q  
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JgC,G/BvhJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BohJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W  
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AAe,wBAAf,CAA+B,KAA/B,IAAwC,4BA Ae,yBAAf,CAA gC,KAAhC,CAAxC,IAAP,C;K;ICXzB,qC;MACI,OA Ae,IAAR,8BAAgB,IAAhB,KACY,IAAR,8BAAgB,IADpB,C;K;ICCX,wC;M5CiBW,Q;MAAA,I4CXgB,K5CWZ,I AAS,CAAT,I4CXY,K5CWE,IAAS,2BAA3B,C;QAAA,OAA sC,qB4CXtB,K5CWsB,C;;Q4CXb,MAAM,8BAA0B, mCAAYB,gBAAzB,MAA1B,C;;MAAtC,W;K;ICRJ,sC;MAEI,WAAW,ShDkC+B,I;MgDhC1C,IAAY,GAAR,oBA AgB,GAAhB,KAAkC,GAAR,oBAAgB,GAA1C,CAAJ,C;QACI,OAA8B,OAAtB,KAAK,CAAC,OAAO,CAAP,IA AD,IAAa,CAAb,IAAL,KAA sB,C;OAGIC,IAAY,IAAR,oBAAgB,IAAhB,KAAkC,IAAR,oBAAgB,IAA1C,CAAJ, C;QACI,OAAO,S;OAEX,OAAO,wB;K;ICPX,wC;MxCqTe,WwC7SY,KxC6SZ,IAAS,C;MAAT,S;QAAc,OwC7S F,KxC6SE,IAqgHT,gBAAR,iBAAQ,C;OArgHT,U;MAAA,S;QAAA,SAAsC,sBwC7StB,KxC6SsB,C;;QwC7Sb,M AAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAAtC,a;K;IAGJ,wC;MxCsTe,WwC9SY,KxC8SZ,IAAS,C;MAAT, S;QAAc,OwC9SF,KxC8SE,IAigHT,gBAAR,iBAAQ,C;OajgHT,U;MAAA,S;QAAA,SAAsC,sBwC9StB,KxC8Ss B,C;;QwC9Sb,MAAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAAtC,a;K;IAGJ,wC;MxCuTe,WwC/SY,KxC+SZ ,IAAS,C;MAAT,S;QAAc,OwC/SF,KxC+SE,IA6/GT,gBAAR,iBAAQ,C;OA7/GT,U;MAAA,S;QAAA,SAAsC,sBw C/StB,KxC+SsB,C;;QwC/Sb,MAAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAAtC,a;K;IAGJ,wC;MxCwTe,Ww ChTY,KxCgTZ,IAAS,C;MAAT,S;QAAc,OwChTF,KxCgTE,IAy/GT,gBAAR,iBAAQ,C;OAz/GT,U;MAAA,S;QA AA,SAAsC,sBwChTtB,KxCgTsB,C;;QwChTb,MAAM,8BAA0B,iCAAuB,cAAvB,MAA1B,C;;MAAtC,a;K;IASO, 6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;s DAC9C,mB;MAAgD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC5D,iB;MACI,oCAAa,2BAAkB,KAAIB,EAAyB, SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAG C,OAAO,E;MACvC,OxCsrBO,UwCtrBA,gBxCsrBR,QAAQ,EwCtrBoB,O3EgOF,KmCsdIB,C;K;yDwCprBX,mB; MAES,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAGC,OAAO,E;MACvC,OxCy6BO,cwCz6BA,gBxCy6BR,QA AQ,EwCz6BwB,O3E2NN,KmC8sBIB,C;K;;IwC/7BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FA CW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBA AY,gBAAS,OAAT,C;K;mDAC7D,iB;MACI,oCAAa,2BAAkB,KAAIB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY, KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACx C,OxCqqBO,U wCrqBA,gBxCqqBR,QAAQ,EwCrqBoB,O3DgNA,KmBqdpB,C;K;yDwCnqBX,mB;MAES,Q;MAAL,IAAI,eAAC ,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACx C,OxCw5BO,cwCx5BA,gBxCw5BR,QAAQ,EwCx5BwB,O3D2MJ,K mB6sBpB,C;K;;IwC96BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBA AY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBAAY,gBAAS,OAAT,C;K;m DAC7D,iB;MACI,oCAAa,2BAAkB,KAAIB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB; MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACx C,OxCopBO,UwCppBA,gBxCopBR,QA AQ,EwCppBoB,O5EkIA,KoCkhBpB,C;K;yDwClpBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAi C,OAAO,E;MACx C,OxCu4BO,cwCv4BA,gBxCu4BR,QAAQ,EwCv4BwB,O5E6HJ,KoC0wBpB,C;K;;IwC75BnB ,8B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAk C,OAAA,gBAAY,U;K;sDAC9C,mB;MAAkD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC9D,iB;MACI,oCAAa,2 BA AkB,KAAIB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC ,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCmoBO,UwCnoBA,gBxCmoBR,QAAQ,EwCnoBoB,O1EkHE,Kk CihBtB,C;K;yDwCjoBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCs3B O,cwCt3BA,gBxCs3BR,QAAQ,EwCt3BwB,O1E6GF,KkCywBtB,C;K;;IwC54BnB,8B;MAMI,4C;K;ICtIJ,qC;MAI I,SAAS,SID+BiC,I;MkD9B1C,OAAa,CAAN,gBAAc,EAAd,KACU,EAAN,gBAAc,EADIB,KAEL,OAAM,GAFV, KAGI,KAAK,IAAL,KACC,OAAM,IAAN,KACS,IAAN,gBAAc,IADjB,KAEG,OAAM,IAFT,IAGG,OAAM,IAHT ,IAIG,OAAM,IAJT,IAKG,OAAM,IALT,IAMG,OAAM,KAPV,CAHJ,C;K;;;mCCTP,gB;;K;;ICAJ,wB;K;;IAIA,w B;K;;IAIA,wB;K;;IAKiC,uB;MAAC,oB;QAAA,OAA0B,E;MAA1B,gB;K;;IAEIC,kB;K;;IAqCqC,sB;MAAC,gB;K ;IAgCN,4B;MAAC,sB;K;;IAEjC,uB;K;;IA8DmC,4B;MAAC,kB;K;;IAEpC,oB;K;;ICpJA,oB;K;;IAIA,wB;K;;oF7 DLA,qB;MAKqE,uCoChTb,E;K;iGpCK/C,yB;MAAA,kD;MAAA,4B;QAQsE,mBAAY,SAAZ,C;O;KARtE,C;IAU A,iC;MAGI,OAA sB,UAA Y,QAAvB,KAAmC,SAA9C,GACe,UAA Y,UAD3B,GAGI,gBAAgB,UAAhB,C;K;IAG R,qC;MAEI,YoC1B2C,E;MpC2B3C,eAAe,UAAW,W;MAC1B,OAAO,QAAS,UAAhB,C;QACU,KAA Y,MAAK, QAAS,OAA d,C;MACtB,OAAO,K;K;IAGX,8C;MAQc,Q;MANV,IAAI,KAAM,OAAN,GAAa,UAAW,KAA5B,C; QACI,OAAO,gBAAgB,UAAhB,C;OAEX,eAAe,UAAW,W;MAC1B,YAA Y,C;MACZ,OAAO,QAAS,UAAhB,C;

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;+DAEpC,mB;MACI,wBAAI,YAAJ,EAAW,OAAX,C;MACA,mC;MACA,cAAO,E;K;+DAGX,mB;MtEIFJ,IAAI,  
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BAAI,WAAJ,EAAU,OAAsV,C;K;;IAIgB,+D;MAAuF,8B;MAAtF,kB;MAA0C,4B;MAC/D,eAAyB,C;MAGrB,oC  
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AvB,C;MACL,mC;K;wDAGJ,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAyB,YAAzB,C;MAEb,OAAO,wBAAK,mB  
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AyB,YAAzB,C;MAEb,OAAO,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OAAsV,C;K;mGAGO,Y;MAAQ,mB  
;K;2DAE/B,Y;MAA+C,WAAK,iB;K;;ICxMN,8B;MAAiC,sB;MAwCnF,uBAAoC,I;MA+CpC,yBAA6C,I;K;IAIF  
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EAAc,IAAd,C;K;sDACIC,iB;MAA4C,+DAAY,IAAZ,EAakB,KAAIB,C;K;;IAIB5C,8E;MAAA,wE;MAAsC,2CA  
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;MAAsD,sDAAY,OAAZ,C;K;IAI3C,oH;MAAA,kD;K;4GACH,Y;MAAkC,OAAA,0BAAc,U;K;yGACHd,Y;MAA  
yB,OAAA,0BAAc,OAAO,I;K;2GAC9C,Y;MAAwB,0BAAc,S;K;;sFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5  
B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB,O  
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xD,iBAAI,GAAJ,EAAS,KAAT,C;;K;IAQc,iG;MAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8B,gC  
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B,0BAAc,S;K;;wFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,+G;K;sIAOmB,Y;MAAQ,OAAA,4BAAwB,K;K  
;8FAEvD,Y;MAAsC,4BAAwB,iB;K;;4FAnB1E,Y;MACI,IAAI,8BAAJ,C;QACI,iG;OAoBJ,OAAO,qC;K;gDAGf,e  
;MACI,qB;MACA,WAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAAY,IAAK,O;QACjB,QAAQ,KAA  
AM,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACI,YAAY,KAAAM,M;UACIB,IAAK,S;UACL,OAAO,K;;MAGf,OA  
AO,I;K;kDAIX,Y;K;;IC3I+C,8B;MAAiC,oC;K;0CAEHf,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3  
B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAGB,KAAhB,C;K;4CAGvB,Y;  
MAG+B,OAAA,mCAAY,2BAAkB,IAAIB,C;K;;ICbT,0B;MAAuD,8B;MAAIC,4B;MACvD,4BAAkC,K;K;gCAk  
BIC,Y;MAEI,qB;MACA,4BAAa,I;MACb,OAAO,I;K;qCAGX,Y;K;iDAGA,uB;K;iFAG8B,Y;MAAQ,OAAA,oBA  
AM,O;K;sCAC5C,iB;MACyC,Q;MAAA,oCAAM,0BAAW,KAAAX,CAAN,4D;K;sCACzC,0B;MAIW,IAAa,I;MA  
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.qC;K;yCAGJ,oB;MACI,qB;MACA,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,uBAAA,oBxEioDoB,QMjr  
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D,YkE6D7C,QIE7D6C,CNirD1C,QwEpnD6B,oBxEonD7B,C;;QwEnnDR,uBAAoC,cAA5B,oBAA4B,EAAV,CA

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C,CAAnC,C;K;uCAGR,mB;MAEkB,Q;MADd,qB;MACc,2B;MAAd,mD;QACI,IAAI,4BAAM,KAAN,GAAgB,O  
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5D,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;;MuEhndgD,iB;K;kfAIInD,Y;MACI,IAAI,+BAAJ,C;QACI,0  
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Z,yBAAqD,cAArD,C;;QAEa,OAAb,iB;;MAHJ,oB;MAKA,iBAAiB,S;MACjB,aAAQ,E;MACR,OAAO,S;K;kEAG

X,Y;M/E/CR,I+EgDyB,c/EhDrB,QAAJ,C;QACI,cAhByB,0B;QAIbZB,MAAM,6BAAsB,OAAQ,WAA9B,C;O+E+CE,6BAAYB,cAAO,6BAAY,IAAnB,C;MACzB,iBAAY,I;MAEZ,uC;K;;6CAtDZ,Y;MAEI,2D;K;4DAyDJ,oB;MACI,mBAAmB,kBAAW,QAAx,C;MACnB,OAAW,iBAAiB,SAArB,GAAgC,IAAhC,GAA0C,Y;K;;;wCCtKrD,Y;MACI,aAAR,MAAM,OAAe,CAAP,IAAO,C;MAEb,OAAO,KAAP,IAAgB,C;M7BXpB,O6BYqB,M7Bzf,C6BYuB,K7BzvB,C;M6BaF,OAAO,M;K;;ICNuB,qC;MAAC,kC;MAEnC,oBAAkC,kB;MACIC,sBAAYB,C;K;yEAHU,Y;MAAA,8B;K;yFAGnC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;iDAWA,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,K;MAC3B,OAAO,kBAAW,GAAX,MAAoB,S;K;4CAG/B,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,OAAW,UAAU,SAArB,GAAgC,KAAhC,GAA2D,I;K;8CAI/D,sB;MjFVA,IAAI,EiFWQ,uBjFXR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,OAAQ,WAAjC,C;OIFUN,eAAe,kBAAW,GAAX,C;MACf,kBAAW,GAAX,IAAkB,K;MAEIB,IAAI,aAAa,SAAjB,C;QACI,6B;QAEA,OAAO,I;;QAGP,OAAO,Q;;K;+CAIf,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,IAAI,UAAU,SAAd,C;Q9BnDJ,O8BoDyB,iB9BpDnB,C8BoD+B,G9BpD/B,C;Q8BqDE,6B;QAEA,OAAO,K;;QAGP,OAAO,I;;K;wCAkf,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;IAKA,0E;MAAA,oD;MACH,cAAkC,MAAa,MAAK,mCAAL,C;MAC/C,kBAA4B,qBAAL,WAAK,C;MAC5B,iBAA+B,I;K;iEAE/B,Y;MAAkC,OAAA,eAAS,U;K;8DAE3C,Y;MAluB,gB;MAHnB,UAAU,eAAS,O;MACnB,iBAAU,G;MAES,+E;MAAnB,OAAO,iD;K;gEAGX,Y;MAEkC,UAA9B,M;MAAA,oC;MAA8B,YAAa,c;MjFchD,uB;MAeP,IAfoB,KAEhB,QAAJ,C;QACI,cAhByB,0B;QAIbZB,MAAM,6BAAsB,OAAQ,WAA9B,C;;QAEN,sBAnBgB,K;;Mifde,oBAAO,sFAAP,C;K;;2CAjBnC,Y;MACI,yD;K;IAqBkD,0F;MAAA,8B;MAAA,oD;K;kHAC9B,Y;MAAQ,uB;K;oHACN,Y;MAAQ,6CAAuB,gBAAvB,C;K;2EAE9B,oB;MAAwC,OAAA,2BAAuB,aAAI,gBAAJ,EAAS,QAAT,C;K;qEAE/D,Y;MAA+B,OAAA,mCAAY,uBAAc,IAAd,C;K;qEAC3C,Y;MAAkC,OAAA,mCAAY,uBAAc,IAAd,C;K;mEAC9C,iB;MAA4C,OAAA,mCAAY,qBAAY,IAAZ,EAAkB,KAAIB,C;K;;gDAR5D,e;MAAsD,iE;K;;MCItD,sBAOsC,I;MA6CtC,yB;MAOA,4BAAkC,K;;IARIE,sD;MAZpC,oB;MAYyD,0CAAqC,GAARc,EAA0C,KAA1C,C;MACrD,oBAAuC,I;MACvC,oBAAuC,I;K;wDAEvC,oB;MACI,WAAmB,iB;MACnB,OAAa,mEAAS,QAAT,C;K;;IAIrB,wC;MAAA,oB;MAA+B,8C;K;IAE3B,sD;MAAAA,oB;MACI,cACsC,I;MAEtC,cACsC,I;MAGIC,cAAO,iC;K;6DAIX,Y;MACI,OAAO,gBAAS,I;K;0DAGpB,Y;MAEI,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;MAEtB,cAAc,0B;MACd,cAAO,O;MACa,gBAAb,OAAQ,a;;MAAf,c/E0DS,S+E1DoB,KAAO,iC/E0DzC,GAaqB,SAArB,GAA+B,I;M+EzD1B,OAAO,O;K;4DAGX,Y;MIFwBR,IAAI,EkFvBc,eAAQ,IIFuBtB,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;OkFxBE,WAAc,iB;MAGP,oCAAP,0BAAO,C;MACP,gCAAI,cAAO,0BAAO,IAAd,C;MAEJ,cAAO,I;K;;iDAIf,mB;MAAyD,MAM,qCAA8B,iCAA9B,C;K;6CAC/D,Y;MACI,WAAmB,Q;K;6DAGvB,mB;MAAgE,OAAA,WAAmB,uBAAc,OAAc,C;K;gDAEnF,Y;MAAwE,qD;K;2DAExE,mB;MACI,qB;MACA,IAAI,iBAAS,OAAT,CAAJ,C;QACI,WAAmB,cAAO,OAAQ,IAAf,C;QACnB,OAAO,I;OAEX,OAAO,K;K;8FAGY,Y;MAAQ,OAAA,WAAmB,K;K;sDAEID,Y;MAAsC,WAAmB,iB;K;;iDAa7D,qB;MIFrBA,IAAI,EkF0BM,0BAAQ,IAAR,IAAgB,0BAAQ,IIF1B9B,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;OkF0BN,YAAY,mB;MACZ,IAAI,SAAS,IAAb,C;QACI,sBAAO,S;QACP,yBAAO,S;QACP,yBAAO,S;;QAGK,YAAa,KAAM,a;QIFIBhC,uB;QAeP,IAfoB,KAEhB,QAAJ,C;UACI,gBAhByB,0B;UAIbZB,MAAM,6BAAsB,SAAQ,WAA9B,C;;UAEN,sBAnBgB,K;;QkFkBZ,+B;QAEA,yBAAO,K;QACP,yBAAO,K;QAEP,qBAAa,S;QACb,qBAAa,S;;K;+CAIrB,qB;MAII,IAAI,SAAK,aAAL,KAAC,SAAI,B,C;QAEI,sBAAO,I;;QAEP,IAAI,wBAAS,SAAb,C;UAEI,sBAAO,sB;SAEX,qDAAc,sB;QACd,qDAAc,sB;;MAEIB,yBAAO,I;MACP,yBAAO,I;K;oCA8CX,Y;MAEI,qB;MACA,4BAAa,I;MACb,OAAO,I;K;oCAGX,Y;MACI,qB;MACA,kBAAL,Q;MACJ,sBAAO,I;K;gDASX,e;MAAmD,OAAA,kBAAI,mBAAY,GAAZ,C;K;kDAEvD,iB;MACiC,Q;MAAA,0B;MAAA,iB;QAAQ,OAAO,K;OAA5C,WAA6B,I;;QAEzB,IAAI,OAAA,IAAK,MAAL,EAAC,KAAc,CAAJ,C;UACI,OAAO,I;SAEX,OAAO,cAAA,IAAK,aAAL,C;;MACF,iBAAS,mBAAT,C;MACT,OAAO,K;K;6CAIX,Y;MAAoF,uC;K;wCAEpF,e;MAAmD,Q;MAAJ,QAAI,OAAJ,kBAAL,WAAI,GAAJ,CAAJ,6B;K;0CAE/C,sB;MACI,qB;MAEA,UAAU,kBAAI,WAAI,GAAJ,C;MACd,IAAI,OAAO,IAAX,C;QACI,eAAe,mCAAW,GAAX,EAAGB,KAAhB,C;QACf,kBAAL,aAAI,GAAJ,EAAS,QAAT,C;QACK,wBAAT,QAAS,C;QACT,OAAO,I;;QAEP,OAAO,GAAL,gBAAS,KAAT,C;;K;2CAInB,e;MACI,qB;MAEA,YAAY,kBAAL,cAAO,GAAP,C;MAChB,IAAI,SAAS,IAAb,C;QACU,sBAAN,KAAM,C;QACN,OAAO,KAAM,M;OAEjB,OAAO,I;K;qFAGmB,Y;MAAQ,OAAA,kBAAI,K;K;6CAE1C,Y;MACI,IAAI,yBAAJ,C;QAAGB,MAAM,oC;K;;IANg1B,mC;MAAA,uD;MAGuB,qB;MA9J3B,yB;MA+JQ,sBAAM,gB;MAJV,Y;K;IAOA,iD;MAAA,uD;MAAoD,qB;MAIKxD,yB;MAoKc,Q;

MAAN,sBAAM,+D;MAFV,Y;K;IAKA,kE;MAAA,uD;MAQ8D,eAAM,eAAN,EAAuB,UAAvB,Q;MA/KIE,yB;M  
AgLQ,sBAAM,gB;MATV,Y;K;IAYA,sD;MAAA,uD;MAA2C,qBAAK,eAAL,EAAsB,GAAtB,Q;MAA3C,Y;K;IA  
EA,+C;MAAA,uD;MAG2C,qB;MAxL/C,yB;MAyLQ,sBAAM,gB;MACN,KAACK,gBAAO,QAAP,C;MALT,Y;K;I  
A6EJ,kC;MAKwD,gBAA7C,qBAAYB,eAAzB,C;MAAqD,wB;MAA5D,O/EjMO,S;K;;;oCgFvCP,Y;MAEK,Q;MA  
A8B,CAA9B,2EAA8B,S;MAC/B,OAAO,I;K;6CAGX,Y;MAA+C,gBAAL,iB;K;;IAhCnD,wC;MAAA,uD;MAAmD  
,eAAM,GAAN,Q;MAPvD,yB;MAOI,Y;K;IAEA,qC;MAAA,uD;MAGuB,eAAM,oBAAN,Q;MAZ3B,yB;MASI,Y;  
K;IAKA,+C;MAAA,uD;MAG8C,eAAM,oBAAN,Q;MAjBID,yB;MAkBQ,qBAAO,QAAP,C;MAJJ,Y;K;IAOA,kE;  
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AA,uD;MAA2C,qBAAK,eAAL,EAAsB,GAAtB,Q;MAA3C,Y;K;IAGBJ,qC;MAKMD,gBAAXC,mBAAC,qBAAD,C  
;MAAGD,6B;MAAvD,OhFoBO,S;K;;;kFiFzEX,uB;MAQI,OAAO,O;K;ICXX,sB;K;mCACI,Y;MACI,mBAAM,IA  
AN,C;K;2CAGJ,mB;MACI,mBAAM,OAAN,C;MACA,c;K;iCAKJ,Y;K;;IAKuB,oC;MAA8B,qB;MAA7B,gC;K;2  
CACxB,mB;MAEI,oBA+DyC,OA/Dd,OA+Dc,C;MA9DzC,iBAAa,OAAM,aAAN,C;K;;IAIrB,8B;MAEOC,qB;K;i  
DACHC,mB;MACI,OAAQ,KAAL,OAAJ,C;K;mDAGZ,mB;MACI,OAAQ,KAAL,OAAJ,C;K;2CAGZ,Y;MACI,OA  
AQ,KAAL,EAAL,C;K;;IAIhB,0B;MAEQC,qB;MACjC,cAAa,E;K;6CAEb,mB;MACI,eAoCyC,OApCxB,OAOcWB,  
C;K;qCAjC7C,Y;MACI,cAAS,E;K;;IAIjB,sC;MAE4C,yB;K;yDACxC,mB;MACI,QAwByC,OAx1B,OAwB0B,C  
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AU,CxE+J0E,WwE/J9D,CxE+J8D,EwE/J3D,CxE+J2D,C;QwE9JpF,Y;QACA,IAAI,CxE0jIE,WwE1JrD,IAAI,CA  
AJ,IxE0jQD,C;OwExJzE,4BAAU,C;K;iDAGd,Y;MACI,OAAQ,KAAL,WAAJ,C;MACR,cAAS,E;K;;IAWjB,yB;M  
ACiD,cAAa,KAAb,C;K;IAEjD,mB;MAEI,MAAO,U;K;IAGX,4B;MAEI,MAAO,iBAAQ,OAAR,C;K;IAGX,wB;  
MAEI,MAAO,eAAM,OAAN,C;K;IAGX,kB;MACqC,MAAM,qCAA8B,sCAA9B,C;K;IAE3C,wB;MAC4C,MAA  
M,qCAA8B,4CAA9B,C;K;ICIGID,mD;MACI,0B;MASA,gBAA2B,a;K;2FAFvB,Y;MAAQ,OAAA,eAAS,Q;K;oD  
AIrB,kB;MACI,UAAU,IAAK,S;MAEX,YAAQ,2CAAR,C;QACI,gBAAC,MAAO,M;WAEzB,YAAQ,yBAAR,C;Q  
ACI,gBAAC,yC;QACd,eAAS,oBAAW,MAAX,C;;QAEI,MAAM,6BAAsB,iBAAtB,C;K;4CAItB,Y;MAOW,Q;M  
ALP,IAAI,kBAAW,2CAAF,C;QACI,gBAAS,yB;QACT,OAAO,yB;OAEX,aAAa,IAAK,S;MAEd,eAAW,yCAAX,  
C;QAAsB,gC;WACTB,0C;QAA4B,MAAM,MAAO,U;;QACjC,a;MAHZ,W;K;;IA7BJ,gD;MAAA,0D;MACyD,6B  
AAK,QAAL,EAae,2CAAF,C;MADzD,Y;K;;;ICRA,2C;MAAA,+D;MAAuB,iC;MAF3B,iC;MAEI,Y;K;IACA,sD  
;MAAA,+D;MAAuC,6BAAM,OAAN,Q;MAH3C,iC;MAGI,Y;K;IACA,6D;MAAA,+D;MAAmD,kCAAM,OAAN,  
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C4CJ,yE;MASI,sC;MAAA,4C;K;IATJ,iGAWY,Y;MAAQ,2B;KAXpB,E;IAAA,0DAaQ,kB;MACI,wBAAW,MAA  
X,C;K;IADz,Sf;IyC5C2E,0C;M1CkKhE,Q;MADP,e0ChKA,M1CgKA,C;MACO,Q0CjKP,M1CiKO,+D;M0ChKX,  
W;K;;+FCuHA,gB;MACI,aAAa,IAAb,MAAa,E;MACb,KAACK,MAAL,C;MACA,OAAO,M;K;wFC3HX,yB;MAA  
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A,6C;MAAA,sC;QAOyD,OAAK,SAAL,SAAK,EAAY,QAAZ,C;O;KAP9D,C;8EASA,yB;MAAA,6C;MAAA,wC;  
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DoC,KACpC,IAAG,CAAH,IADoC,KACpC,IAAM,sBAAN,C;QAD8B,OACX,gBAAY,MAAK,KAAL,C;;QACvB  
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,I/CzBqC,MAAa,Y+CyBvC,C/CzBuC,C+CyBID,C;UAC6B,8BAAzB,CAAYB,C;;UAGN,UAAIB,uDAaKB,Y;;MA  
P3B,a;K;IC9BJ,2B;MAEI,MAAM,yBAAqB,OAArB,C;K;IAGV,sB;MAEI,MAAM,uBAAMB,cAANB,C;K;IAGV,2  
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,8B;MC8CW,kB1GqBiD,oB;M0GM9C,Q;MAAA,OAAK,0B;MAAf,OAAU,cAAV,C;QAAU,mB;QACN,UAAU,s



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hB,OAAO,G;K;IAGX,+B;MAMgB,Q;MADZ,WAA0B,MAAa,MAAK,KAAL,C;MACvC,wBAAY,IAAZ,gB;QAA  
Y,UAAA,IAAZ,M;QACI,IAAU,KAAy,gBAaE,GAaf,CAAtB,C;UACI,UAAK,GAAL,IAAY,MAAM,GAAN,C;;  
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ASA,yB;MAAA,iB;MAAA,oB;QAOkD,OAAA,MAAW,KAAI,CAAJ,C;O;KAP7D,C;qEASA,yB;MAAA,iB;MA  
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N,C;O;KAZ/D,C;yEAca,yB;MAAA,iB;MAAA,oB;QAYoD,OAAA,MAAW,OAAM,CAAN,C;O;KAZ/D,C;yEAca  
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hB,C;QAAaB,OAAO,G;MAC7B,OAAgB,aAAT,kBAAS,CAAT,GAA+B,SAAL,cAAK,C;K;;IAI9C,wB;MAAA,4  
B;MACI,4BAAwC,I;MACxC,2BAAgD,W;MACHD,kCAAyC,K;K;0FAFzC,Y;MAAA,gC;K;yFACA,Y;MAAA,+  
B;K;gGACA,Y;MAAA,sC;K;sCACA,Y;MAAkC,gB;K;;IAJtC,oC;MAAA,mC;QAAA,kB;OAAA,4B;K;IAOA,iC;  
MACI,QAAM,SAAN,M;aACI,W;UADJ,OAC2B,E;aACvB,I;UAFJ,OAEoB,K;aAChB,K;UAHJ,OAGqB,M;gBAH  
rB,mC;;K;IC3CkC,oE;MACIC,0B;MACA,wC;MACA,kC;MACA,oC;K;sEAHA,Y;MAAA,0B;K;6EACA,Y;MAA  
A,iC;K;0EACA,Y;MAAA,8B;K;2EACA,Y;MAAA,+B;K;4CAEA,Y;MAAkC,gB;K;;8CANtC,Y;MACI,gB;K;8CA  
DJ,Y;MAEI,uB;K;8CAFJ,Y;MAGI,oB;K;8CAHJ,Y;MAIL,qB;K;gDAJJ,kD;MAAA,8BACI,kCADJ,EAEI,uDAFJ,E  
AGI,8CAHJ,EAI,iDAJ,C;K;4CAA,Y;MAAA,c;MACI,qD;MACA,4D;MACA,yD;MACA,0D;MAJJ,a;K;0CAA  
A,iB;MAAA,4IACI,oCADJ,IAEI,kDAFJ,IAGI,4CAHJ,IAII,8CAJJ,I;K;ICAA,4B;MAAA,gC;MAEI,gBACe,wBA  
AoB,MAApB,EAA6D,KAA7D,EAAoE,gCAApE,C;MAEf,mBACkB,wBAAoB,MAApB,EAAgE,QAaHE,EAA0E  
,mCAAIE,C;MAEIB,oBACmB,+B;MAEnB,oBACmB,wBAAoB,OAApB,EAAkE,SAAlE,EAA6E,oCAA7E,C;M  
AEnB,iBACgB,wBAAoB,MAApB,EAA8D,MAA9D,EAASe,iCAAtE,C;MAEHb,kBACiB,wBAAoB,MAApB,EA  
A+D,OAA/D,EAAwE,kCAAxE,C;MAEjB,gBACe,wBAAoB,MAApB,EAA6D,KAA7D,EAAoE,gCAApE,C;MAE  
f,kBACiB,wBAAoB,MAApB,EAA+D,OAA/D,EAAwE,kCAAxE,C;MAEjB,mBACkB,wBAAoB,MAApB,EAAgE  
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qB,wBAAoB,WAApB,EAAwE,WAAxE,EAAqF,sCAArF,C;MAErB,sBACqB,wBAAoB,SAAPB,EAASe,WAAtE,  
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E,sCAA/E,C;MAErB,uBACsB,wBAAoB,YAApB,EAA0E,YAA1E,EAAwF,uCAAXF,C;MAEtB,wBACuB,wBAA  
oB,YAApB,EAA2E,aAA3E,EAA0F,wCAA1F,C;K;IAMkB,qE;MAAA,qB;QAAE,OtE/DD,OsE+DU,EAAT,KAAi  
B,UAAjB,IAAkC,EAA Y,OAAf,KAA0B,a;O;K;+CAJpG,iB;MAE2B,Q;MAAhB,U;MAAA,KAAgB,OAAhB,eAA  
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EG,eAAhB,UAAqC,M;QAHIC,SAIH,M;;MAJJ,a;K;IA7D+E,8C;MAAE,6B;K;IAGO,iD;MAAE,0B;K;IAME,kD;  
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C,iD;MAAE,6B;K;IAGH,gD;MAAE,yB;K;IAGD,iD;MAAE,6B;K;IAGM,oD;MAAE,mC;K;IAGO,uD;MAAE,gC;  
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,C;;MAHJ,W;K;IAOJ,8B;MAC4E,QAAM,QAAS,OAAf,C;aACxE,C;UADwE,OACnE,WAAW,SAAS,CAAT,CA  
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,S;iBACjD,oBAAgB,KAAhB,C;cAAgD,OAAjB,8BAAiB,e;;cAE5C,cAA0B,W;cAC1B,kBAAW,OAAX,C;;;UAx  
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Y,C;K;qEAChB,4B;MAIkE,iBAA Y,KAAZ,C;K;2EAEIE,qB;MAI8D,gB;K;ICIDb,2C;MAC7C,qBAAwC,Q;K;iDA  
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IB,C;YAAA,SAAqB,C;;Y1Gq+BpC,U;YADhB,YAAY,C;YACI,oB0Gr+B+C,S1Gq+B/C,C;YAAhB,OAAgB,gB  
AhB,C;cAAGB,sC;cAAM,I0Gr+BgE,U1Gq+BiD,oB0Gr+BkD,MAAK,E1Gq+BrE,C;gBAAwB,qB;;Y0Gr+Bf,SA  
4B,I1Gs+BpD,K0Gt+BoD,I;;UAA/C,yB;U5GorCC,kB;UADb,YAAY,C;UACC,S4GnrCK,aAAN,KAAM,C5GmrC  
L,W;UAAb,OAAa,gBAAb,C;YAAa,wB;Y4GlrCG,I5GkrCU,oBAAmB,cAAnB,EAAmB,sBAAnB,U4GlrCN,gB  
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HC/H+C,Y;MAAQ,W;K;IAEtE,gD;MACkB,UAMP,M;MANO,IAAI,aAAY,CAAhB,C;QACV,Y;;QAEA,UxBsY8  
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;O;MAGI,uEAGY,GAHZ,C;MAIA,yEAGa,MAHb,C;MAIA,yEAGa,SAHb,C;MAIA,+DAGQ,KAHR,C;MAIA,+D  
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;IAEW,+D;MAAA,0C;MAAS,mB;MACxC,iBAAgB,yBAAQ,S;K;8DACxB,Y;M5HyEG,Q4HxEC,8BAAQ,QAA  
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;MAAA,yC;K;;IARJ,sC;MAAA,2F;K;;IAAA,2C;MAAA,a;aAAA,S;UAAA,gD;aAAA,O;UAAA,8C;gBAAA,+D;;  
K;;;IAyByB,4B;MACzB,8B;K;;IC/C4C,8B;K;kDAI5C,mB;MAA6D,c;;QpJ2rD7C,Q;QADhB,IAAI,mCAAsB,cAA  
1B,C;UAAqC,aAAO,K;UAAP,e;;SACrB,sB;QAAhB,OAAgB,cAAhB,C;UAAgB,2B;UAAM,IoJ3rD6C,OpJ2rD/B,  
SoJ3rD+B,UpJ2rD7C,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;;MoJ5rDsD,iB;K;uDAE7D,oB;MACa,c;;Qp  
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,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACtB,mD;MAEA,OAAO,2F;K;4DAGX,Y;MACI,iD;MACA,kB;M  
ACA,OAAO,kD;K;+CAeX,iB;MAII,2BAAy,K;MACZ,gD;K;sCAGJ,Y;MAII,+C;K;;ICjDkC,wB;MAoFtC,oC;MA  
pFgE,6B;K;sCAIhE,Y;MAAuC,0C;K;2CAEvC,mB;MAAwD,uB;;QtJkU3C,Q;QADb,YAAy,C;QACC,sB;QAAb,  
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AGR,qBAAO,E;;;MsJjWqD,yB;K;0CAE5D,Y;MAA+C,+CAAiB,CAAjB,C;K;kDAE/C,iB;MAAyD,+CAAiB,KA  
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,kB;MAAmC,4B;MAC5D,eAAyB,C;MAGrB,+DAAkB,gBAAIB,EAA6B,OAA7B,EAAsC,WAAK,KAA3C,C;MA  
CA,eAAa,UAAU,gBAAV,I;K;iDAGjB,iB;MACI,+DAAkB,KAAIB,EAAYB,YAAzB,C;MAEA,OAAO,wBAAK,m  
BAAy,KAAZ,IAAL,C;K;4FAGY,Y;MAAQ,mB;K;;oCAGnC,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;  
MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,2DAAc,IAAd,EAAoB,KAApB,C;K;sCAGX,Y;MAG  
+B,oEAAgB,IAAhB,C;K;IAE/B,2C;MAAA,oB;MACI,eACsB,C;K;kDAEtB,Y;MAAkC,sBAAQ,gB;K;+CAE1C,Y  
;MAEe,gB;MADX,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACX,iE;MAAX,OAAO,+B;K;;IAO0B,sD;MAHz  
C,oB;MAGwD,iD;MAGhD,gEAAmB,KAAAnB,EAA0B,WAAkB,KAA5C,C;MACA,eAAa,K;K;0DAGjB,Y;MAAs  
C,sBAAQ,C;K;wDAE9C,Y;MAAgC,mB;K;uDAEhC,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MAC  
1B,OAAO,yBAAL,mCAAJ,EAAl,YAAJ,E;K;4DAGX,Y;MAAoC,sBAAQ,CAAR,I;K;;IAGxC,kC;MAAA,sC;K;iE  
ACI,uB;MACI,IAAI,QAAQ,CAAR,IAAa,SAAS,IAA1B,C;QACI,MAAM,8BAA0B,YAAS,KAAAT,gBAAuB,IAAj  
D,C;Q;kEAIId,uB;MACI,IAAI,QAAQ,CAAR,IAAa,QAAQ,IAAzB,C;QACI,MAAM,8BAA0B,YAAS,KAAAT,gBA  
AuB,IAAjD,C;Q;iEAIId,oC;MACI,IAAI,YAAy,CAAZ,IAAiB,UAAU,IAA/B,C;QACI,MAAM,8BAA0B,gBAAa,S  
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Ab,oBAAmC,OAA5D,C;Q;kEAIId,sC;MACI,IAAI,aAAa,CAAb,IAAkB,WAAW,IAAjC,C;QACI,MAAM,8BAA0B,i  
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UAAAd,qBAAsC,QAA/D,C;Q;+DAId,a;MAEc,UACsB,M;MAFhC,iBA Ae,C;MACL,mB;MAAV,OAAU,cAAV,C;  
QAAU,mB;QACN,aAAW,MAAK,UAAAL,SAAiB,6DAAiB,CAAIC,K;;MAEf,OAAO,U;K;6DAGX,oB;MAIiB,Q;  
MAHb,IAAI,CAAE,KAAF,KAAU,KAAM,KAApB,C;QAA0B,OAAO,K;MAEjC,oBAAoB,KAAM,W;MACb,mB  
;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,gBAAgB,aAAc,O;QAC9B,IAAI,cAAQ,SAAR,CAAJ,C;UACI,OAAO,K;  
;MAGf,OAAO,I;K;;IAjDf,8C;MAAA,6C;QAAA,4B;OAAA,sC;K;;ICnFwC,uB;MAyHxC,mC;MAzCA,uBAC6B,I  
;MAmC7B,yBACsC,I;K;8CAnHtC,e;MACI,OAAO,6BAAc,GAAAd,S;K;gDAGX,iB;MAAwE,gBAAR,Y;MAAQ,c;  
;QvJkrDxD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,K;UAAP,e;;SACrB,2B;QAAhB,OAAgB,cAAh  
B,C;UAAgB,yB;UAAM,IuJlrDwD,OvJkrD1C,OuJlrD6C,MAAH,QvJkrDxD,C;YAAwB,aAAO,I;YAAP,e;;QAC9  
C,aAAO,K;;MuJnrDyD,iB;K;kDAEhE,iB;MAEI,IAAI,gCAAJ,C;QAA+B,OAAO,K;MACtC,UAAU,KAAM,I;MA

ChB, YAAy, KAAM, M; MpKiNO, Q; MoKhNzB, epKgN4C, CAAnB, mDAAmB, YoKhNzB, GpKgNyB, C; MoK9M5C  
, IAAI, eAAS, QAAT, CAAJ, C; QACI, OAAO, K; OAIP, 6B; MAAA, W; QpK0NqB, U; QoK1ND, UpK0NoB, CAAnB, uD  
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AAAd, C; QAAoB, OAAO, I; MAC3B, IAAI, 0BAAJ, C; QAAyB, OAAO, K; MACHC, IAAI, cAAQ, KAAM, KAAlB, C; QA  
AwB, OAAO, K; MAEV, gBAAd, KAAM, Q; MAAQ, c; QvJ6nDT, Q; QADhB, IAAI, wCAAsB, mBAA1B, C; UAAqC, a  
AAO, I; UAAP, e; SACrB, 2B; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UAAM, IAAI, CuJ7nDK, 2BvJ6nDM, OuJ7nDN  
, CvJ6nDT, C; YAAyB, aAAO, K; YAAP, e; QAC/C, aAAO, I; MuJ9nDH, iB; K; sCAGJ, e; MAAwC, Q; MAAA, 4CAAc,  
GAAd, 8B; K; qCAGx, Y; MAK+B, OAAQ, SAAR, YAAQ, C; K; oCAEvC, Y; MAAkC, qBAAQ, C; K; mFACnB, Y; MA  
AQ, OAAA, YAAQ, K; K; IAWnB, 0E; MAAA, wC; MAAS, sB; K; 8EACb, mB; MAASD, +CAAY, OAAZ, C; K; IAI3C, sG;  
MAAA, kd; K; 8FACH, Y; MAAkC, OAAA, 0BAAc, U; K; 2FACHD, Y; MAAyB, OAAA, 0BAAc, OAAO, I; K; wEAJtD,  
Y; MACI, oBAAoB, 6BAAQ, W; MAC5B, +F; K; sHAMmB, Y; MAAQ, OAAA, qBAAiB, K; K; mFAB5D, Y; MACI, IAAI  
, 4BAAJ, C; QACI, +E; OAcJ, OAAO, mC; K; IAOWD, uD; MAAA, qB; QAAE, 2CAAS, EAAT, C; O; K; qCAAzE, Y; MAAk  
C, OAAQ, eAAR, YAAQ, EAAa, IAAb, EAAM, GAAnB, EAAwB, GAAxB, kBAA6B, iCAA7B, C; K; +CAE1C, iB; MA  
AuD, +BAAS, KAAM, IAAf, IAAsB, GAAtB, GAA4B, wBAAS, KAAM, MAAf, C; K; +CAEnF, a; MAAwC, OAAI, MA  
AM, IAAV, GAAgB, YAAhB, GAAoC, SAAF, CAAE, C; K; IAWtD, 4E; MAAA, wC; MAAS, 6B; K; gFACf, mB; MAAsE,  
iDAAc, OAAAd, C; K; IAI3D, wG; MAAA, kd; K; gGACH, Y; MAAkC, OAAA, 0BAAc, U; K; 6FACHD, Y; MAAyB, OAAA  
, 0BAAc, OAAO, M; K; 0EAJtD, Y; MACI, oBAAoB, 6BAAQ, W; MAC5B, iG; K; wHAMmB, Y; MAAQ, OAAA, qBAAi  
B, K; K; qFAB5D, Y; MACI, IAAI, 8BAAJ, C; QACI, mF; OAcJ, OAAO, qC; K; oDAMf, e; MAA8D, gBAAR, Y; MAAQ, sB  
; QvJiJ9C, Q; QAAA, 2B; QAAhB, OAAgB, cAAhB, C; UAAgB, yB; UAAM, IuJjJsD, OvJiJx, OuJjJ2C, IAAH, MvJiJtD,  
C; YAAwB, qBAAO, O; YAAP, uB; QAC9C, qBAAO, I; MuJiJ+C, yB; K; IAETD, iC; MAAA, qC; K; 4DAEI, a; MAAIE, g  
C; MAAX, OAAU, CAAC, kBAAAN, CAAM, 0DAAmB, CAAPB, KAA4B, oBAAjC, CAAiC, 8DAAqB, CAAjD, C; K; 4D  
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AA+B, OAAO, K; MACtC, OAAO, OAAA, CAAE, IAAF, EAAS, KAAM, IAAf, KAAsB, OAAA, CAAE, MAAF, EAAW  
, KAAM, MAAjB, C; K; IANrC, 6C; MAAA, 4C; QAAA, 2B; OAAA, qC; K; IChIqC, uB; MAkBrC, mC; MAIB+D, 6B; K;  
mCAE/D, iB; MAMI, IAAI, UAAU, IAAAd, C; QAAoB, OAAO, I; MAC3B, IAAI, 0BAAJ, C; QAAAsB, OAAO, K; MAC7B,  
OAAO, sDAAU, IAAV, EAAgB, KAAhB, C; K; qCAGX, Y; MAG+B, qEAAkB, IAAIB, C; K; IAE/B, iC; MAAA, qC; K; gE  
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, yEAAuB, CAAPC, K; MAEJ, OAAO, U; K; wDAGX, oB; MACI, IAAI, CAAE, KAAF, KAAU, KAAM, KAAPB, C; QAA  
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C; K; MCghBA, kC; MA9hBA, cAAwB, C; MACxB, yB; MAEA, sBAAYB, C; kFAAZB, Y; MAAA, 0B; K; OAAA, gB; M  
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e, kBAAy, OAA/B, C; QAAqC, M; MACrC, IAAI, uBAAgB, qDAAPB, C; QACI, qBAAc, gBAAYB, gBAAZ, WAAy, EA  
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AAb, C; K; 0CAGJ, uB; MAII, kBAAk, gBAAM, WAAAnB, O; M9J20BtB, U8J10BI, kB9J00BJ, E8J10ByB, W9J00BzB  
, E8J10BsC, C9J00BtC, E8J10ByC, W9J00BzC, E8J10B+C, kBAAy, O9J00B3D, C; MAAA, U8Jz0BI, kB9Jy0BJ, E8Jz0  
ByB, W9Jy0BzB, E8Jz0BsC, kBAAy, OAAZ, GAAM, WAAAnB, I9Jy0BtC, E8Jz0B+D, C9Jy0B/D, E8Jz0BkE, W9Jy0  
BIE, C; M8Jx0BI, cAAO, C; MACP, qBAAc, W; K; yCAGIB, yB; MAGW, Q; MAAP, OAAO, 2BAAY, aAAZ, 4D; K; yCAG  
X, iB; MAA2C, OAAI, SAAS, kBAAy, OAAzB, GAA+B, QAAQ, kBAAy, OAApB, IAA/B, GAA6D, K; K; yCAExG, iB;  
MAA2C, OAAI, QAAQ, CAAZ, GAAe, QAAQ, kBAAy, OAApB, IAAf, GAA6C, K; K; 2CAExF, iB; MACoD, 0BAAY, c  
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R, I; K; mCAEtF, Y; MAAkC, qBAAQ, C; K; iCAE1C, Y; MAGwB, IAAI, cAAJ, C; QAAe, MAAM, 2BAAUb, sBAAvB, C;  
QAnBIC, Q; QAmBa, OAnBb, 2BAAmBkG, WAnBIG, 4D; K; uCAqBX, Y; MAG+B, Q; MAAA, IAAI, cAAJ, C; QAAA, O  
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, C; QAAe, MAAM, 2BAAUb, sBAAvB, C; QA7BjC, Q; QA6BY, OA7BZ, 2BAQyC, mBAAY, cAqB0D, sBArB1D, IAA  
Z, CARzC, 4D; K; sCA+BX, Y; MAG8B, Q; MAAA, IAAI, cAAJ, C; QAAA, OAAe, I; QAIcIC, U; QAkCmB, OAlCnB, 6B  
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AAf, C; MAEA, cAAO, mBAAY, WAAZ, C; MACP, mBAAY, WAAZ, IAAoB, O; MACpB, wBAAQ, CAAR, I; K; yCAGJ



,mB;MAII,sBA Ae,YAAO,CAAP,IAAf,C;MAEA,mBA7CgD,mBAAY,cA6CIC,SA7CkC,IAAZ,CA6ChD,IAAmC,  
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A+DP,cA/DO,2BA+DmB,WA/DnB,4D;MAGeP,mBAAY,WAAZ,IAAoB,I;MACpB,cAAO,mBAAY,WAAZ,C;M  
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,C;MARzC,Q;MAkFP,cAlFO,2BAkFmB,iBAIFnB,4D;MAmFP,mBAAY,iBAAZ,IAAiC,I;MACjC,wBAAQ,CAA  
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A,wB;MACI,8C;K;gCAEA,iB;MAA4C,oCAAsB,KAAM,U;K;kCACxE,Y;MAA+B,Q;K;kCAC/B,Y;MAAkC,W;K  
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B,OAAO,W;K;2FAGX,yB;MAAA,wE;MAAA,uC;QAOW,kBAAY,oB;QafH,Q;QAAA,OPJoE,iBAAQ,W;QAOJ  
5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,CAckC,SAdjC,CAAU,OAAV,CAAL,C;YACI,WAAY,aAAI,OAA  
Q,IAAZ,EAaiB,OAAQ,MAAzB,C;;QAapB,OAVO,W;O;KAGX,C;IAUA,0B;MAQqB,IAAN,I;MADX,IAAI,oCA  
AJ,C;QACW,QAAM,cAAN,C;eACH,C;YAAK,iB;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAAkB,sBAAK,CA  
AL,CAAlB,GAA+B,oBAAW,OAAhD,C;YAAL,K;kBACQ,0BAAM,qBAAoB,YAAY,cAAZ,CAApB,CAAN,C;Y  
AHL,K;;QAAP,W;OAMJ,OAAoC,oBAA7B,mBAAM,oBAAN,CAA6B,C;K;IAGxC,yC;MAIwB,SAApB,WAAoB  
,Y;MAApB,kB;K;IAEJ,4B;MAM6D,QAAM,gBAAN,C;aACzD,C;UADyD,OACpD,U;aACL,C;UAFyD,OAEPD,  
MAAM,UAAK,CAAL,CAAN,C;gBAFoD,OAGjD,mBAAM,qBAAoB,YAAY,gBAAZ,CAApB,CAAN,C;;K;IAG  
Z,yC;MAIwB,OAAPB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAMqD,QAAM,cAAN,C;aACjD,C;UADiD  
,OAC5C,U;aACL,C;UAFiD,Oc/X8B,uB;gBd+X9B,OAGzC,uB;;K;IAGZ,iC;MAMmE,4BAAc,SAAd,C;K;IAEnE,  
yC;MAKI,WAAoB,0B;MAApB,kB;K;IAEJ,kC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAAoB,MAAM,I  
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VgiBP,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAA0B,MAAN,KAAM,C;;QAAiC,kBAAP  
B,qBAAc,SAAd,C;QAA4B,4B;QAAAnE,OUziBO,W;;MVyiBP,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UA  
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BP,W;K;IAEJ,mC;MAOWB,kBAAPB,qBAAc,SAAd,C;MAA4B,4B;MAA5B,OAA4C,oBU3jBrC,WV2jBqC,C;K;I  
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I,kBAAO,KAAP,C;O;KALJ,C;4FAQA,0B;MAKI,yBAAO,GAAP,C;K;IAGJ,kC;MAOWB,kBAAf,aAAL,SAAK,C;  
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C;K;8FAGJ,yB;MAAA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;8FASA,yB;MAAA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;8FASA,yB;MAAA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;IAUA,wC;MACsD,QAAM,cAAN,C;aACID,C;UADkD,OAC7C,U;aACL,C;UAFkD,gB;gBAAA,OAG1C,S;;K;oF4KtwBZ,yB;MAAA,8D;MAAA,8B;MAAA,qC;QAUic,Q;QAA7B,OAA2D,CAA9B,sEAA8B,eAAO,OAAP,C;O;KAV/D,C;wFAYA,yB;MAAA,8D;MAAA,8B;MAAA,sC;QASiC,Q;QAA7B,OAA2D,CAA9B,sEAA8B,oBAAU,QAAV,C;O;KAT/D,C;wFAWA,yB;MAAA,8D;MAAA,8B;MAAA,sC;QASiC,Q;QAA7B,OAA2D,CAA9B,sEAA8B,oBAAU,QAAV,C;O;KAT/D,C;4FAWA,8B;MAKI,SAAK,WAAI,OAAJ,C;K;4FAGT,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;4FAQA,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;4FAQA,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;8FAQA,8B;MAKI,SAAK,cAAO,OAAP,C;K;8FAGT,yB;MAAA,sD;MAAA,sC;QAKS,UAAL,SAAK,EAAU,QAAV,C;O;KALT,C;8FAQA,yB;MAAA,sD;MAAA,sC;QAKS,UAAL,SAAK,EAAU,QAAV,C;O;KALT,C;8FAQA,yB;MAAA,sD;MAAA,sC;QAKS,UAAL,SAAK,EAAU,QAAV,C;O;KALT,C;IAQA,qC;MAIU,IAIe,I;MAHjB,kBADE,QACF,c;QAAiB,OAAO,yBAAO,QAAP,C;;QAEpB,aAAsB,K;QACT,0B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,oBAAI,IAAJ,CAAJ,C;YAAe,SAAS,I;;QAC5B,OAAO,M;;K;IAKnB,uC;MAKiB,Q;MADb,aAAsB,K;MACT,0B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAI,oBAAI,IAAJ,CAAJ,C;UAAe,SAAS,I;;MAE5B,OAAO,M;K;IAGX,uC;MAII,OAAO,yBAAgB,OAAT,QAAS,CAAhB,C;K;IAGX,0C;MAIW,iBAAmB,gCAAT,QAAS,EAAGC,SAAhC,C;MAIHG,Q;MAKH7B,OAIH2D,CAA9B,sEAA8B,oBAAU,UAAV,C;K;IAqH/D,0C;MAII,UAAmB,8BAAT,QAAS,C;MACnB,O7K0EwD,C6K1EjD,G7K0EkD,U6K1EID,IAAoB,4BAAU,GAAV,C;K;IAG/B,0C;MAII,OnLqoPO,EmLroPA,QnL6jPA,YAAQ,CAwER,CmLroPA,IAAyB,4BAAmB,8BAAT,QAAS,CAAnB,C;K;IAGpC,0C;MAIW,iBAAmB,gCAAT,QAAS,EAAGC,SAAhC,C;MA7HG,Q;MA6H7B,OA7H2D,CAA9B,sEAA8B,oBAAU,UAAV,C;K;IAGI/D,0C;MAII,InLunPO,EmLvnPH,QnL+iPG,YAAQ,CAwER,CmLvnPP,C;QACI,OAAO,4BAAmB,8BAAT,QAAS,CAAnB,C;;QAEp,OAAO,wB;K;IAGf,0C;MAII,UAAmB,8BAAT,QAAS,C;MACnB,I7K0CwD,C6K1CpD,G7K0CqD,U6K1CzD,C;QACI,OAAO,4BAAU,GAAV,C;;QAEp,OAAO,wB;K;IAGf,kC;MACI,a7KmCwD,CAAC,mB;M6KICzD,iB;MACA,OAAO,M;K;IAIX,2C;MAKkF,gCAAc,SAAd,EAAYB,IAAZB,C;K;IAEIF,2C;MAKkF,gCAAc,SAAd,EAAYB,KAAZB,C;K;IAEIF,sE;MACI,iBAAa,KAAb,C;MIKIJgB,kBkKmJX,oB;MACD,OAAO,qBAAP,C;QACI,IAAI,UAAU,kBAAV,6BAAJ,C;UACI,oB;UACA,WAAS,I;SAGrB,OAAO,Q;K;oFAIX,4B;MAM6D,kCAAS,KAAT,C;K;IAE7D,gC;MAKiD,IAAI,mBAAJ,C;QAAe,MAAM,2BAAuB,gBAAvB,C;;QAArB,OAAmE,2BAAS,CAAT,C;K;IAEpH,sC;MAKwD,OAAI,mBAAJ,GAAe,IAAf,GAAyB,2BAAS,CAAT,C;K;IAEjF,+B;MAKgD,IAAI,mBAAJ,C;QAAe,MAAM,2BAAuB,gBAAvB,C;;QAArB,OAAmE,2BAAS,2BAAT,C;K;IAEnH,qC;MAKuD,OAAI,mBAAJ,GAAe,IAAf,GAAyB,2BAAS,2BAAT,C;K;IAEHf,2C;MAK8E,kCAAc,SAAd,EAAYB,IAAZB,C;K;IAE9E,2C;MAK8E,kCAAc,SAAd,EAAYB,KAAZB,C;K;IAE9E,wE;MAEgB,UAGS,MAHT,EAcY,MAZ,EAc6B,M;MAfzC,IAAI,uCAAJ,C;QACI,OAAOC,cAA5B,sEAA4B,EAAC,SAAd,EAAYB,uBAAZB,C;MAExC,iBAAsB,C;MACD,oC;MAArB,qBAAkB,CAAlB,mC;QACI,cAAc,sBAAK,SAAL,C;QACd,IAAI,UAAU,OAAV,MAAsB,uBAA1B,C;UACI,Q;QAEJ,IAAI,eAAc,SAAlB,C;UACI,sBAAK,UAAL,EAAMB,OAAnB,C;QAEJ,+B;;MAEJ,IAAI,aAAa,cAAjB,C;QACwB,oC;QAAiB,mB;QAArC,oE;UACI,2BAAS,WAAT,C;QAEJ,OAAO,I;;QAEp,OAAO,K;;K;IChS+B,wC;MAAkC,uB;MAAjC,0B;K;4FACpB,Y;MAAQ,OAAA,eAAS,K;K;iDACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,CAAT,C;K;;IAGT,gC;MAAYC,8B;MAAxC,0B;K;oFACH,Y;MAAQ,OAAA,eAAS,K;K;yCACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,CAAT,C;K;mCAEIC,Y;MAAuB,eAAS,Q;K;8CACCh,iB;MAAuC,OAAA,eAAS,kBAAS,0BAAoB,KAApB,CAAT,C;K;yCAEHd,0B;MAA8C,OAAA,eAAS,aAAI,0BAAoB,KAApB,CAAJ,EAAGC,OAAhC,C;K;yCACvD,0B;MACI,eAAS,aAAI,2BAAqB,KAArB,CAAJ,EAAC,OAAjC,C;K;;IAIjB,+C;MACoB,Q;MAAA,kC;MAAhB,IAAa,CAAT,0BAAJ,C;QAAA,OAA2B,8BAAy,KAAZ,I;;QAAuB,MAAM,8BAA0B,mBAAgB,KAAhB,2BAA0C,gBAAG,2BAAH,CAA1C,OAA1B,C;K;IAE5D,gD;MACoB,Q;MAAA,qB;MAAhB,IAAa,CAAT,0BAAJ,C;QAAA,OAA5B,iBAAO,KAAp,I;;QAAkB,MAAM,8BAA0B,oBAAiB,KAAjB,2BAA2C,gBAAG,cAAH,CAA3C,OAA1B,C;K;IAGID,+B;MAK+C,gCAAqB,SAArB,C;K;IAE/C,iC;MAM6D,wBAAa,SAAb,C;K;;IvKpC7D,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IwKY8G,wC;MAAA,mB;QAAE,kBAAS,aAAT,C;O;K;IAThY,yB;MASqG,oCAAS,sBAAT,C;K;8FAErG,yB;MAAA,kD;MxKdA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;O;MARvF,4CASI,Y;QAAuC,8B;O;MAT3C,8E;MwKiB2I,qD;QAAA,mB;UAAE,gBAAS,qBAAT,C;S;O;MAH7I,gC;QAGkI,kCAAS

,mCAAT,C;O;KAHII,C;IAKA,2B;MAQI,eAAe,6B;MACf,oBAA0B,+BAAN,KAAM,EAAwC,QAAxC,EAA+D,Q  
AA/D,C;MAC1B,OAAO,Q;K;8FAGX,yB;MAAA,kD;MAAA,gC;QAGkI,gBAAS,aAAT,C;O;KAHII,C;IAGB0C,y  
B;K;+CAoBtC,kC;MAOI,IAAI,uCAA0B,QAAS,UAAvC,C;QAAkD,M;MACID,OAAO,sBAAS,QAAS,WAAIB,e;  
K;+CAGX,kC;MAQqD,6BAAS,QAAS,WAAIB,e;K;,,,,,;IAezD,mC;MAA2C,wB;MACvC,eAAoB,C;MACpB,mB  
AA4B,I;MAC5B,sBAAyC,I;MACzC,gBAAoC,I;K;gDAEpC,Y;MACI,OAAO,IAAP,C;QACI,QAAM,YAAN,C;eA  
CI,C;YAAA,K;eACA,C;YACI,IAAI,kCAAe,UAAAnB,C;cACI,eAAQ,C;cACR,OAAO,I;:cAEP,sBA Ae,I;:;YALvB,  
K;eAOA,C;YAAc,OAAO,K;eACrB,C;eAAA,C;YAAgC,OAAO,I;kBAC/B,MAAM,yB;:;QAGIB,eAAQ,C;QACR,  
WAAW,4B;QACX,gBAAW,I;QACX,IxH/FR,oBDgDQ,WyH+CY,kBzH/CZ,CChDR,C;:K;6CwHmGA,Y;MACU,  
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CAAe,O;aAE1B,C;UACI,eAAQ,C;UACR,aAcA,mF;UACb,mBAAy,I;UACZ,OAAO,M;gBAEH,MAAM,yB;:K;u  
DAItB,Y;MACI,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;:;QAA8B,OAAO,W;K;2DAG/D,Y;MAA4C,QAAM,Y  
AAN,C;aACxC,C;UADwC,OAC1B,6B;aACd,C;UAFwC,OAExB,6BAAsB,sBAAtB,C;gBAFwB,OAGhC,6BAAs  
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CA,yB;O;K;yDANR,kC;MACI,IAAI,CAAC,QAAS,UAAc,C;QAAyB,M;MACzB,sBA Ae,Q;MACf,eAAQ,C;MAC  
R,OAA6C,6CAAtC,c;K;2DAMX,kB;MzHjBO,Q;MADP,eyHoBI,MzHpBJ,C;MACO,QyHmBH,MzHnBG,+D;My  
HoBH,eAAQ,C;K;kGAIR,Y;MAAQ,0C;K;:;IxK1LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,g  
F;sFAAA,yB;MAAA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;O;MARvF,4CASI,Y;QAAuC,8B;O;MAT3C,8E;MA  
AA,2B;QAQuF,2C;O;KARvF,C;IAiBgE,+C;MAAA,mB;QAAE,sB;O;K;IALIE,kC;MAKuD,OAakB,2CAAT,+BA  
AS,E;K;IAEzE,8B;MAK6D,OAAI,Qb2rPtD,YAAQ,Ca3rP0C,GAAwB,eAAxB,GAAsD,WAAT,QAAS,C;K;IAEn  
H,yB;MAG8C,kC;K;IAE9C,yB;MAAA,6B;K;uCACI,Y;MAA6C,kC;K;2CAC7C,a;MAA4B,kC;K;2CAC5B,a;MA  
A4B,kC;K;:;IAHhC,qC;MAAA,oC;QAAA,mB;OAAA,6B;K;oFAMA,yB;MAAA,2D;MAAA,4B;QAM4D,uCAAQ  
,e;O;KANpE,C;IAGB4F,mH;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wD;MAAA,kC;K;:;:kDAAA,  
Y;:;:;cACxF,eAAe,uBAAa,W;cAC5B,IAAI,QAAS,UAAb,C;gBACI,gB;gCAAA,sCAAS,QAAT,O;oBAAA,2C;yB  
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A,W;:;:;:;:;K;IADwF,gE;MAAA,yD;uBAAA,uG;YAAA,S;iBAAA,Q;:;iBAAA,uB;O;K;IAP5F,4C;MAOmF,g  
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V,OAAO,UAAAS,KAAT,C;K;IAGX,+B;MAQqD,6BAAS,4BAAT,C;K;IAW0B,+G;MAAA,wC;MAAA,6B;MAAA  
,yB;MAAA,0C;MAAA,4C;MAAA,0B;MAAA,kC;K;:;:mDAAA,Y;:;:;kCAC9D,0C;cACb,gB;:;:;cAAA,IAAO,iBPY  
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AA,iCAAM,KAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;:;cAJJ,gB;:;cAMJ,W;:;:;:;:;K;IAR+E,4D;MAAA,yD;u  
BAAA,mG;YAAA,S;iBAAA,Q;:;iBAAA,uB;O;K;IAT/E,uC;MASmE,gBAAy,kCAAZ,C;K;IAkBhC,0D;MAE/B,w  
B;QAAA,WAAgC,I;MADhC,0B;MACA,0B;MACA,4B;K;IAGuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MA  
CxB,iBAAqB,E;MACrB,gBAAmB,I;K;oEAEnB,Y;MACI,OAAO,aAAS,UAAhB,C;QACI,WAAW,aAAS,O;QAC  
pB,IAAI,wCAAU,IAAV,MAAmB,sCAAvB,C;UACI,gBAAW,I;UACX,iBAAy,C;UACZ,M;:;MAGR,iBAAy,C;K;  
8DAGhB,Y;MASW,Q;MARP,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,IAAI,mBAAa,CAAjB,C;QACI,MAAM,6  
B;MACV,aAAa,a;MACb,gBAAW,I;MACX,iBAAy,E;MAEZ,OAAO,yE;K;iEAGX,Y;MACI,IAAI,mBAAa,EAAj  
B,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;:;2CAhC5B,Y;MAAuC,yD;K;:;IA2C3C,qD;MAAY,0B;MAAmC,gC;K;I  
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Y;MACI,OAAO,aAAS,U;K;:;8CAPxB,Y;MAAuC,4D;K;qDAWvC,oB;MACI,OAAO,uBAA4B,eAA5B,EAAsC,kB  
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AAy,0B;K;IAC6C,wE;MACjD,gBA Ae,gCAAS,W;MACxB,aAAY,C;K;6DACZ,Y;MAC2C,Q;MAAvC,OAAO,iB  
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;K;;0CARxB,Y;MAAqD,wD;K;;IAmBzD,0D;MACI,4B;MACA,4B;MACA,4B;K;IAEuC,sE;MAAA,gD;MACnC,i  
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AAU,OAA tC,C;K;+DAGX,Y;MACI,OAAO,cAAU,UAAV,IAAuB,cAAU,U;K;;yCARhD,Y;MAAuC,uD;K;;IAc3  
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;+DAEjC,Y;MACI,IAAI,CAAC,2BAAL,C;QACI,MAAM,6B;MACV,OAAO,gCA Ae,O;K;kEAG1B,Y;MACI,OA  
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L/L5C,iBhL+L6C,UgL/LjD,C;gBACI,IAAI,qCAAKB,iBAAO,KAAP,KAAe,uBAARc,C;kBAA2C,iB;kCAAA,iCA  
AM,iBAAN,O;sBAAA,2C;2BAAA,yB;kBAAA,Q;;kBAA3C,iB;;;gBADJ,iB;;;cAdJ,W;;cAcI,iB;;;cAZJ,iB;;;cAk

CJ,W;,,,,,,,,,,,,;K;IArCyB,sI;MAAA,yD;uBAAA,6K;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAF7B,6E;MACI,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,OAAO,2B;MAChC,OAAO,WAakB,0EAAIB,C;K;IAwCwB,6B;MAA8B,uB;MAA7B,kB;MAChC,mBAA6B,C;MAC7B,eAAyB,C;K;2CAEzB,8B;MACI,+DAakB,SAaIB,EAA6B,OAA7B,EAA5C,WAAK,KAA3C,C;MACA,mBAaIB,S;MACjB,eAAa,UAAU,SAAV,I;K;0CAGjB,iB;MACI,+DAakB,KAAIB,EAAyB,YAAzB,C;MAEA,OAAO,wBAAK,mBAAy,KAAZ,IAAL,C;K;qFAGY,Y;MAAQ,mB;K;;IASR,wC;MAAqD,uB;MAApD,sB;MxKrDxB,IAAI,EwKuDQ,cAAc,CxKvDtB,CAAJ,C;QACI,cwKsD2B,wE;QxKrD3B,MAAM,gCAAyB,OAAQ,WAAjC,C;OAFV,IAAI,EwKwDQ,cAAc,aAAO,OxKxD7B,CAAJ,C;QACI,gBwKuDqC,wFAA+E,aAAO,O;QxKtD3H,MAAM,gCAAyB,SAAQ,WAAjC,C;OwK2DV,kBAaUB,aAAO,O;MAC9B,oBAA8B,C;MAE9B,sBAAyB,U;K;kFAAZB,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;uCAGA,iB;MAGW,Q;MAFP,+DAakB,KAAIB,EAAyB,SAazB,C;MAEA,OAAO,sBAAGmC,CAnG5B,iBAmG6B,GAnGV,KAmGU,IAAD,IAAa,eAnGhD,4D;K;kCAGX,Y;MAAe,qBAAQ,e;K;IAEgB,4D;MAAA,sC;MAAS,2B;MAC5C,eAAoB,oB;MACpB,eAAoB,4B;K;8DAEpB,Y;MAKgB,Q;MAJZ,IAAI,iBAAS,CAAb,C;QACI,W;;QAGA,mBAAQ,sCAAQ,YAAP,4DAAR,C;QACA,eAoFkC,CAPf1B,YAoF2B,GAPfB,CAoFa,IAAD,IAAa,+B;QAnF/C,mC;;K;;oCAXZ,Y;MAAuC,kD;K;2CAgBvC,iB;MAGIE,UAQ1C,MAR0C,EAe1C,MAf0C,EAqBtD,M;MatBP,aACQ,KAAM,OAAO,GAAa,IAAK,KAAtB,GAakC,UAAN,KAAM,EAAO,IAAK,KAAZ,CAAIC,GAAyD,kD;MAE7D,WAAW,IAAK,K;MAEHb,WAAW,C;MACX,UAAU,iB;MAEV,OAAO,OAAO,IAAP,IAAe,MAAM,eAA5B,C;QACI,OAAO,IAAP,IAAe,wBAAO,GAAP,gE;QACf,mB;QACA,iB;;MAGJ,MAAM,C;MACN,OAAO,OAAO,IAAd,C;QACI,OAAO,IAAP,IAAe,wBAAO,GAAP,gE;QACf,mB;QACA,iB;;MAEJ,IAAI,MAAO,OAAP,GAAc,IAAK,KAAvB,C;QAA6B,OAAO,IAAK,KAAZ,IAAoB,I;MAEjD,OAAO,uD;K;mCAGX,Y;MACI,OAAO,qBAAQ,gBAAa,SAAb,OAAR,C;K;4CAGX,uB;MAKI,kBAaOD,eAAjC,mBAAy,mBAAa,CAAZB,IAA8B,CAA9B,IAAiC,EAAa,WAAb,C;MACpD,gBAAoB,sBAAC,CAAIB,GAA4B,UAAP,aAAO,EAAO,WAAP,CAA5B,GAAqD,qBAAQ,gBAAa,WAAb,OAAR,C;MACrE,OAAO,eAAW,SAAX,EAA5B,SAAtB,C;K;qCAGX,mB;MAII,IAAI,aAAJ,C;QACI,MAAM,6BAASB,qBAAtB,C;OAGV,cA6B0C,CA7BnC,iBA6BoC,GA7BjB,SA6BiB,IAAD,IAAa,eA7BvD,IAAmC,O;MACnC,6B;K;+CAGJ,a;MxKhJA,IAAI,EwKoJQ,KAAK,CxKpJb,CAAJ,C;QACI,cwKmJkB,wC;QxKlJIB,MAAM,gCAAyB,OAAQ,WAAjC,C;OAFV,IAAI,EwKqJQ,KAAK,SxKrJb,CAAJ,C;QACI,gBwKoJqB,wEAA8D,S;QxKnJnF,MAAM,gCAAyB,SAAQ,WAAjC,C;OwKqJN,IAAI,IAAI,CAAR,C;QACI,YAAy,iB;QACZ,UAgBsC,CAhB5B,KAgB6B,GAhBf,CAGBe,IAAD,IAAa,e;QAdnD,IAAI,QAAQ,GAAZ,C;UACW,OAAP,aAAO,EAAK,IAAL,EAAW,KAAX,EAAkB,eAAIB,C;UACA,OAAP,aAAO,EAAK,IAAL,EAAW,CAAX,EAAc,GAAd,C;;UAEA,OAAP,aAAO,EAAK,IAAL,EAAW,KAAAX,EAAkB,GAAIB,C;;QAGX,oBAAa,G;QACb,wBAAQ,CAAR,I;Q;qCAKR,wB;MAC8C,QAAC,YAAO,CAAP,IAAD,IAAa,e;K;;IA9G3D,0C;MAAA,oD;MAA6B,uBAAK,gBAAMb,QAAAnB,OAAAL,EAAmC,CAnC,C;MAA7B,Y;K;ICvFj,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAy,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OrL+B4E,0BqL/BrE,kBAAM,CAAN,CrL0Q2B,KAAL,GAAiB,GA3O8B,EqL/B1D,KrL0QgB,KAAL,GAAiB,GA3O8B,CqL/BrE,IAAP,C;UACI,a;;QACJ,OrL6B4E,0BqL7BrE,kBAAM,CAAN,CrLwQ2B,KAAL,GAAiB,GA3O8B,EqL7B1D,KrLwQgB,KAAL,GAAiB,GA3O8B,CqL7BrE,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;MAGR,OAAO,C;K;IAGX,uC;MAGI,YAAy,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAQ,CAAR,IAAP,CAAJ,C;QACI,UAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,UAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAxB,C;K;IAGR,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAy,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OnLM6E,0BmLnTE,kBAAM,CAAN,CnL0O2B,KAAL,GAAiB,KApO+B,EmLn3D,KnL0OgB,KAAL,GAAiB,KApO+B,CmLnTE,IAAP,C;UACI,a;;QACJ,OnLI6E,0BmLjTE,kBAAM,CAAN,CnLwO2B,KAAL,GAAiB,KApO+B,EmLj3D,KnLwOgB,KAAL,GAAiB,KApO+B,CmLjTE,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAy,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAQ,CAAR,IAAP,CAAJ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAxB,C;K;IAGR,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAy,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,

OAAO,KAAK,CAAZ,C;QACI,OpLnB8D,YoLmBvD,kBAAM,CAAN,CpLnBwE,KAAjB,EoLmB5C,KpLnByE,KAA7B,CoLmBvD,IAAP,C;UACI,a;;QACJ,OpLrB8D,YoLqBvD,kBAAM,CAAN,CpLrBwE,KAAjB,EoLqB5C,KpLrByE,KAA7B,CoLqBvD,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAy,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAQ,CAAR,IAAP,CAAJ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,YAAU,KAAV,EAAiB,KAAjB,EAAwB,KAAxB,C;K;IAGR,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAy,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OpK5C+D,aoK4CxD,kBAAM,CAAN,CpK5C0E,KAAiB,EoK4C7C,KpK5C2E,KAA9B,CoK4CxD,IAAP,C;UACI,a;;QACJ,OpK9C+D,aoK8CxD,kBAAM,CAAN,CpK9C0E,KAAiB,EoK8C7C,KpK9C2E,KAA9B,CoK8CxD,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAy,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAQ,CAAR,IAAP,CAAJ,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,YAAU,KAAV,EAAiB,KAAjB,EAAwB,KAAxB,C;K;IAKR,gD;MAI6E,UAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA5B,C;K;IAC7E,gD;MAC6E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA5B,C;K;IAC7E,gD;MAC6E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA5B,C;K;IAC7E,gD;MAC6E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,UAAU,CAAV,IAA5B,C;K;IvK9I7E,0C;MF0BI,IAAI,EEjBI,SAAU,OA AV,GAaiB,CfibrB,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,OAAQ,WAAjC,C;OEIBV,OAAO,oBAAoB,CAApB,EAAuB,CAAvB,EAA0B,SAA1B,C;K;IAGX,8C;MACe,Q;MAAX,wBAAW,SAAx,gB;QAAW,SAAA,SAAx,M;QACI,SAAS,GAAG,CAAH,C;QACT,SAAS,GAAG,CAAH,C;QACT,WAAW,cAAc,EAAc,EAAkB,EAAIB,C;QACX,IAAI,SAAQ,CAAZ,C;UAAe,OAAO,I;;MAE1B,OAAO,C;K;sGAGX,yB;MAAA,8D;MAAA,iC;QASI,OAAO,cAAc,SAAS,CAAT,CAAd,EAA2B,SAAS,CAAT,CAA3B,C;O;KATX,C;sGAYA,sC;MASI,OAAO,UAAW,SAAQ,SAAS,CAAT,CAAR,EAAqB,SAAS,CAAT,CAArB,C;K;IAatB,6B;MAWY,Q;MALR,IAAI,MAAM,CAAV,C;QAAa,OAAO,C;MACpB,IAAI,SAAJ,C;QAAe,OAAO,E;MACtB,IAAI,SAAJ,C;QAAe,OAAO,C;MAGtB,OAA8B,iBAAtB,mDAAsB,EAAU,CAAV,C;K;IAaZ,6C;MAAA,uB;QAAU,2BAAoB,CAApB,EAAuB,CAAvB,EA A0B,iBAA1B,C;O;K;IAVhC,8B;MF7CI,IAAI,EEsDI,SAAU,OA AV,GAaiB,CftrDrB,CAAJ,C;QACI,cAda,qB;QA eb,MAAM,gCAAYB,OAAQ,WAAjC,C;OEqDV,OAAO,eAAW,2BAAx,C;K;0FAIX,yB;MAAA,sC;MAAA,oC;M AAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,C AAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MAPf,2B;QAOL,sBAAW,0BAAx,C;O;KAPJ,C;0FASA, yB;MAAA,oC;MAQe,gE;QAAA,uB;UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;UAAIC,OA1Dd,UAAW,SAAQ,SA0 DW,CA1DX,CAAR,EAAqB,SA0DC,CA1DD,CAArB,C;S;O;MAKDtB,uC;QAQI,sBAAW,sCAAX,C;O;KARJ,C;4 GAUA,yB;MAAA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB, OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MAPf,2B;QAOL,sBAA W,oCAAX,C;O;KAPJ,C;8GASA,yB;MAAA,oC;MAUe,0E;QAAA,uB;UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;U AAIC,OA/Ed,UAAW,SAAQ,SA+EW,CA/EX,CAAR,EAAqB,SA+EC,CA/ED,CAArB,C;S;O;MAqEtB,uC;QAUI,s BAAW,gDAAX,C;O;KAVJ,C;kFAYA,yB;MAAA,sC;MAAA,oC;MAAA,oBAQe,yB;QA9Gf,8D;eA8Ge,yC;UAA A,uB;YACP,sBAAsB,WAAy,SAAQ,CAAR,EAAW,CAAX,C;YACIC,Q;YAAA,IAAI,oBAAmB,CAAvB,C;cAA A,OAA0B,e;;cAAqB,eAAsB,gB;cAArE,OA vGG,cAAc,SAuG8C,CAvG9C,CAAd,EAA2B,SAuGoC,CAvGpC,CA A3B,C;;YAsGH,W;W;S;OADO,C;MARf,sC;QAQI,sBAAW,kCAAX,C;O;KARJ,C;oFAaA,yB;MAAA,oC;MAQe, 0E;QAAA,uB;UACP,sBAAsB,WAAy,SAAQ,CAAR,EAAW,CAAX,C;UACIC,Q;UAAA,IAAI,oBAAmB,CAAvB ,C;YAAA,OAA0B,e;;YAAqB,iBAAsB,kB;YAAtB,eAAkC,gB;YAAjF,OA xGG,UAAW,SAAQ,SAwGyC,CaxGz C,CAAR,EAAqB,SAwG+B,CaxG/B,CAArB,C;;UAuGd,W;S;O;MATR,kD;QAQI,sBAAW,8CAAX,C;O;KARJ,C; sGAaA,yB;MAAA,sC;MAAA,oC;MAAA,8BAQe,yB;QAxIf,8D;eAwIe,mD;UAAA,uB;YACP,sBAAsB,qBAAsB, SAAQ,CAAR,EAAW,CAAX,C;YAC5C,Q;YAAA,IAAI,oBAAmB,CAAvB,C;cAAA,OAA0B,e;;cAAqB,eAAsB,g B;cAArE,OAjIG,cAAc,SAiI8C,CAjI9C,CAAd,EAA2B,SAiIoC,CAjIpC,CAA3B,C;;YAgIH,W;W;S;OADO,C;MA Rf,sC;QAQI,sBAAW,4CAAX,C;O;KARJ,C;wGAaA,yB;MAAA,oC;MAQe,8F;QAAA,uB;UACP,sBAAsB,qBAAs B,SAAQ,CAAR,EAAW,CAAX,C;UAC5C,Q;UAAA,IAAI,oBAAmB,CAAvB,C;YAAA,OAA0B,e;;YAAqB,iBAA

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B,C;K;;IAtCtB,sC;MAAA,qC;QAAA,oB;OAAA,8B;K;;IA0CJ,wB;MAAuC,yBAAa,IAAb,EAAmB,IAAK,IAAI,E  
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6TsC,Uml7T/B,YnL6T+B,C;K;ImL1T1C,uC;MAWI,IAAA,KAAM,UAAN,C;QAAMB,MAAM,gCAAYB,uCAAo  
C,KAA7D,C;;QACzB,InL7CmE,amL6CnE,KAAM,KnL7C+E,KAAIB,EmL6CtD,6BAAM,UnL7C8E,KAA9B,Cm  
L6CnE,K;UAFoD,OAEpB,uBAAU,KAAM,MAAhB,EnLhCuB,UmlgCA,KAAM,KnLhCK,KAAK,KAAW,ChBs  
Q7C,UAAW,oBAAL,CmMtOyB,WnMsOzB,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,CmLgCvB,C;;UA  
ChC,InL9CmE,amL8CnE,KAAM,MnL9C+E,KAAIB,EmL8CrD,6BAAM,UnL9C6E,KAA9B,CmL8CnE,K;YAHo  
D,OnL9BG,UmlIcTb,uBnLpBuB,UmlObb,KAAM,MnLpBkB,KAAK,UAAY,ChByP/C,UAAW,oBAAL,CmMrO  
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;;YmL8BH,OAI5C,oB;;K;IAGZ,sC;MAQI,4BAAU,KhK4+FH,QgK5+FP,C;MACA,OAAO,K;K;IAGX,uC;MAKs  
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O,K;K;IAIX,2C;MxLrHI,IAAI,EX2B8D,YmM0FD,KnM1FkB,KAAjB,EmM0FO,InM1FsB,KAA7B,CmM0FD,Ix  
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+B;QxLpHhF,MAAM,gCAAYB,OAAQ,WAAjC,C;Q;IlyLpBc,6C;MAScxB,oC;MA/BA,iB;MANA,Y;MACA,Y;M  
ACA,Y;MACA,Y;MACA,Y;MACA,sB;MzLYA,IAAI,EyLLQ,CAAC,WAAC,QAAL,GAAU,QAAV,GAAe,QAAf

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O,C;MACIB,WAAI,Q;MACJ,WAAI,Q;MACJ,WAAI,Q;MACJ,SAAS,Q;MACT,WAAI,E;MACJ,IAAK,IAAO,KA  
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8C;MACjD,4B;MACA,0C;K;oEADA,Y;MAAA,2B;K;2EACA,Y;MAAA,kC;K;uCAGA,iB;MACI,OAAO,0CAAg  
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K;yCAIX,Y;MACI,OAAW,cAAJ,GAAe,EAaf,GAAuB,MAAW,SAAN,UAAAM,CAAX,QAAqC,SAAb,iBAAa,CA  
ArC,I;K;yCAGIC,Y;MAAkC,OAAE,UAAf,qBAAU,iB;K;;IAGhD,kC;MAM6E,2BAAgB,SAAhB,EAAsB,IAAtB,  
C;K;;;0DAYzE,iB;MAA2C,qCAAIb,UAAjB,EAawB,KAAxB,KAAkC,8BAAiB,KAAjB,EAawB,iBAAxB,C;K;i  
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B,C;K;IAQvD,+C;MAI1B,gBAAqB,K;MACrB,uBAA4B,Y;K;yFACF,Y;MAAQ,oB;K;gGACD,Y;MAAQ,2B;K;0  
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B,+C;MACI,IAAI,CAAC,UAAL,C;QAAiB,MAAM,gCAAYB,iCAA8B,IAA9B,iBAAzB,C;K;IC5I3B,gC;MAcW,  
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;;;;;ICvBhB,yC;MA2B9B,uC;MA1BA,wB;MAIA,gB;M5LQA,IAAI,E4LDS,iBAAy,IAAb,MAAuB,iBAAvB,C5L  
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A/B,C;K;;IARCR,iD;MAAA,gD;QAAA,+B;OAAA,yC;K;;2CArCJ,Y;MAWI,oB;K;2CAXJ,Y;MAeI,gB;K;6CAfJ,0  
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,W;SAjC7C,OAKCO,C;O;KAtCX,C;mEAMA,yB;MAAA,4B;MAAA,mC;QAQS,cAAU,oBAAN,KAAM,C;QAmC  
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,0B;MAhBA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgBpB,QAhBA,SAGBQ,KAAO,OAAP,C;QACR,IAjBA,SAiB  
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C;O;KAtBX,C;mEAMA,4B;MAQS,cAAU,oBAAN,KAAM,C;MAmBf,QAnBA,SAmBQ,QAAO,OAAP,C;MANB  
R,OAoBO,MAAK,YAAa,MAAM,OAAN,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAIC  
,CAAX,CAAL,CAPbkB,Q;K;6EAE7B,yB;MAAA,0B;MAAA,mC;QAII,QAAQ,cAAO,KAAP,C;QACR,IAAI,cA  
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C;mEASA,4B;MAQI,QAAQ,iBAAO,KAAP,C;MACR,OAAO,MAAK,UAAa,MAAM,KAAN,CAAD,KAAmB,K  
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C;QAUI,QAAQ,YAAO,K;QACJ,iBAAS,G;QAAT,S;UAAsB,OpGspBc,MAAiC,MoGtpB/C,CpGspB+C,CoGtpB/  
C,KpGspBc,MAAiC,MoGtpBrC,KpGspBqC,C;SoGtpBhF,OAAO,OAAGD,IAAI,KAAPD,GAA+D,C;O;KAX1E,C;  
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O,OAAsC,IAzBzB,KAYBb,GAAqD,C;O;KANChE,C;mEAYA,yB;MpG8H6C,iB;MoG9H7C,mC;QASBI,QAZA,S  
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C;MA+CtB,qC;MA/CuB,kB;MAAgB,kB;MAAgB,kB;MAMvD,iBAAsB,iBAAU,UAAV,EAAiB,UAAjB,EAAwB,

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,I;MACP,iE;MAAD,mB;QAA6B,OAAO,K;OAAvD,mBAAMb,M;MACnB,OAAO,IAAK,UAAAL,KAAgB,YAAa,  
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,uC;MACI,2BAIuC,G;MAEvC,eAIoC,uCAA0B,M;K;;;IAXIE,+C;MAAA,8C;QAAA,6B;OAAA,uC;K;;IA9CA,iD;  
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;K;4FCxDI,yB;MAAA,2D;MAAA,4B;QAAQ,MAAM,6BAAoB,6BAAPB,C;O;KAAc,C;;;ICSJ,uB;MAG2C,+BA  
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,C;QACI,gBAAS,mC;QACT,qBAAc,I;OAGIB,OAAO,gF;K;6CAGf,Y;MAAwC,yBAAW,iC;K;wCAEnD,Y;MAA  
kC,OAAI,oBAAJ,GAA2B,SAAN,UAAAM,CAA3B,GAA2C,iC;K;8CAE7E,Y;MAAkC,+BAAoB,UAApB,C;K;;IA  
GG,oC;MAAC,4B;K;wEAAA,Y;MAAA,2B;K;kDAEtC,Y;MAAwC,W;K;6CAExC,Y;MAAkC,OAAM,SAAN,UA  
AM,C;K;;oFC2C5C,yB;MAAA,gD;MAAA,4B;QAM6C,OAAmB,aAAIB,YAAy,GAAM,C;O;KANhE,C;oGAQA,  
yB;MxG7FA,iB;MwG6FA,4B;QAMqD,OxG7FM,MAAO,OwG6FZ,YAAy,GxG7FA,CwG6Fb,GAA6C,EAA7C,I;  
O;KANrD,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAMsD,OAAmB,sBAAIB,YAAW,GAAO,C;O;KANzE,C;8FAQ  
A,yB;MAAA,0D;MAAA,0B;MAAA,4B;QAomD,OAAuC,OAAPB,kBAAIB,YAAy,GAAM,CAAoB,C;O;KAP1F  
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K;IAExF,4C;MAaI,OAAoF,QAAnF,SAAQ,IAAI,EAAJ,IAAU,WAAa,EAAvB,CAAR,GAA4D,CAAPB,YAAy,K  
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I,cAda,qB;UAEb,MAAM,8BAAyB,OAAQ,WAAjC,C;U;KAZbD,C;0EAaA,yB;MAAA,kF;MAAA,qC;QAUl,IAAI,  
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,C;;UAEN,wBAnBkB,K;;QAAtB,4B;O;KARJ,C;wFAWA,yB;MAAA,kF;MAAA,qC;QAYI,IAAI,aAAJ,C;UACI,c  
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yB;MAAA,4E;MAAA,qC;QAUl,IAAI,CAAC,KAAL,C;UACI,cAAc,a;UACd,MAAM,2BAAsB,OAAQ,WAA9B,  
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KAhBf,C;oEAqBA,yB;MAAA,4E;MAAA,0B;QAMiD,MAAM,2BAAsB,OAAQ,WAA9B,C;O;KANvD,C;I8CnHi

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kBADE,UACF,kB;QADJ,OACkB,UAAM,U,;QADxB,OAEY,I;K;gCAGhB,Y;MAOQ,kBADE,UACF,kB;QADJ,O  
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B;QAOI,uBAAO,KAAP,C;O;KAPJ,C;wHASA,yB;MAAA,kD;MAAA,iC;MAAA,4B;QAOI,uBAAO,cAAc,SAAd,  
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C,+CAAoB,uBAAa,KAAM,UAAAnB,C;K;wCACHe,Y;MAA+B,OAAU,SAAV,cAAU,C;K;wCACzC,Y;MAAkC,o  
BAAU,cAAV,M;K,;gCA/F1C,Y;MAAA,c;MAOI,sD;MAPJ,a;K;8BAAA,iB;MAAA,2IAOI,sCAPJ,G;K;IAmGA  
,kC;MAOI,OAAO,mBAAQ,SAAR,C;K;IAEX,mC;MAQI,IAAI,8CAAJ,C;QAA6B,MAAM,eAAM,U;K;gFAG7C,  
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,4B;QAUW,Q;QADP,yB;QACA,OAAO,gF;O;KAVX,C,+EAaA,yB;MAAA,gB;MAAA,8B;MAAA,uC;QAegB,U  
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vB,C,;YAIEN,gC;cACS,SAzDH,gBAAO,cAyDI,CAzDJ,CAAP,C,;cAsDD,O,;UA+GU,a,;UACL,uBAAO,eAAP,C;  
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C;oEAOA,yB;MAAA,2D;MAAA,yB;QAMkD,MAAM,6BAAoB,sCAAmC,MAAvD,C;O;KANxD,C;gEAUA,iB;  
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MAUI,gB;MACA,OAAO,S;K;kEAGX,4B;MAWI,MAAM,SAAN,C;MACA,OAAO,S;K;kEAGX,4B;MAUI,OAA  
O,MAAM,SAAN,C;K;sEAGX,gC;MAWI,OAAW,UAAU,SAAV,CAAJ,GAAqB,SAArB,GAA+B,I;K;8EAG1C,g  
C;MAWI,OAAW,CAAC,UAAU,SAAV,CAAL,GAAsB,SAAtB,GAAgC,I;K;wEAG3C,yB;MAWI,iBAAc,CAAd,  
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D,8B;MAI8C,iBAAO,eAAP,EAAC,gBAAd,E;K;IAiBD,sC;MACzC,kB;MACA,oB;MACA,kB;K;gCAGA,Y;MAG  
yC,aAAG,UAAH,UAAW,WAAX,UAAoB,UAApB,M;K,;kCAxB7C,Y;MAGBI,iB;K;kCAhBJ,Y;MAiBI,kB;K;kC  
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B;K;IAExD,2B;MAAA,+B;MAcI,iBAGoC,UAAM,CAAN,C;MAEpC,iBAGoC,UAAM,MAAN,C;MAEpC,kBAG  
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BtC,wC;MAAA,uC;QAAA,sB;OAAA,gC;K;wGAsBA,iB;MAM0D,OAAa,0BA6OjC,SAAL,GAAiB,KA7OqB,EA  
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# 1.139 swagger-annotations 2.1.6

## 1.139.1 Available under license :

No license file was found, but licenses were detected in source scan.

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jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java
* /opt/cola/permits/1265843831_1643957016.06/0/swagger-annotations-2-1-6-sources-
jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java
* /opt/cola/permits/1265843831_1643957016.06/0/swagger-annotations-2-1-6-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java
* /opt/cola/permits/1265843831_1643957016.06/0/swagger-annotations-2-1-6-sources-
jar/io/swagger/v3/oas/annotations/responses/ApiResponses.java
* /opt/cola/permits/1265843831_1643957016.06/0/swagger-annotations-2-1-6-sources-
jar/io/swagger/v3/oas/annotations/links/LinkParameter.java
*
/opt/cola/permits/1265843831_1643957016.06/0/swagger-annotations-2-1-6-sources-
jar/io/swagger/v3/oas/annotations/extensions/Extensions.java
* /opt/cola/permits/1265843831_1643957016.06/0/swagger-annotations-2-1-6-sources-
jar/io/swagger/v3/oas/annotations/media/Content.java
* /opt/cola/permits/1265843831_1643957016.06/0/swagger-annotations-2-1-6-sources-
jar/io/swagger/v3/oas/annotations/links/Link.java

```

# 1.140 picocontainer 2.15

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Found in path(s):

```

* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/ProviderAdapter.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/ComponentLifecycle.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/security/CustomPermissionsURLClassLoader.java

```

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*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/ComponentMonitorStrategy.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Stored.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/FactoryInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/references/SimpleReference.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Guarded.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/Provider.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/CompositeInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Injector.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/InjectInto.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/references/ThreadLocalMapObjectReference.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/CompositeInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/Injector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/MultiInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/ObjectReference.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Decorated.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/Reinjection.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/references/ThreadLocalReference.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/Reinjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/MultiInjection.java
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- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/classname/ClassPathElement.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/classname/ClassName.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/classname/ClassLoadingPicoContainer.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/parameters/DefaultConstructorParameter.java
- \*
- /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/classname/DefaultClassLoadingPicoContainer.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/parameters/NullParameter.java

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Found in path(s):

- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/LifecycleState.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/StartableLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/visitors/MethodCallingVisitor.java
- \*
- /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/AbstractMonitoringLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/visitors/TraversalCheckingVisitor.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/converters/Converter.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/ReflectionLifecycleStrategy.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoVisitor.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/ComponentAdapter.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/lifecycle/JavaEE5LifecycleStrategy.java

```
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/Converters.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/LifecycleStrategy.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/visitors/VerifyingVisitor.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/lifecycle/DefaultLifecycleState.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/lifecycle/CompositeLifecycleStrategy.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/lifecycle/ReflectionLifecycleException.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/visitors/AbstractPicoVisitor.java
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```
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AnnotatedFieldInjection.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/NamedFieldInjector.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Automated.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Locked.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/NameBinding.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/AdaptingBehavior.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/PropertyApplicator.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AnnotatedFieldInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/monitors/LifecycleComponentMonitor.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
```

jar/org/picocontainer/PicoContainer.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/Automating.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/ComponentFactory.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/adapters/AbstractAdapter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/Injectors.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/Characteristics.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/PropertyApplying.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/annotations/Inject.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/containers/TransientPicoContainer.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/DefaultPicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/lifecycle/NullLifecycleStrategy.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/parameters/BasicComponentParameter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/behaviors/Synchronizing.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/NamedMethodInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/PicoVerificationException.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/PicoException.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/annotations/Cache.java  
\*  
/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/containers/CommandLinePicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/TypedFieldInjection.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/adapters/InstanceAdapter.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/TypedFieldInjector.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/injectors/NamedFieldInjection.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/parameters/CollectionComponentParameter.java

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* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Locking.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/annotations/Nullable.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Behaviors.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AbstractInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/BehaviorFactory.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoBuilder.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/InjectionFactory.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/AnnotatedMethodInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/ImplementationHiding.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/HiddenImplementation.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/parameters/ComponentParameter.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/containers/ImmutablePicoContainer.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Synchronized.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/injectors/SetterInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoClassNotFoundException.java

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* Original code by Paul Hammant & Obie Fernandez & Aslak Hellesø. *
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```

* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/monitors/NullComponentMonitor.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/AbstractBehavior.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Decorating.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/FieldDecorating.java

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Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/monitors/ComponentMonitorHelper.java

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/monitors/WriterComponentMonitor.java

\*

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/monitors/ConsoleComponentMonitor.java

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\* Original code by the committers \*

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/containers/AbstractDelegatingMutablePicoContainer.java

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\* Original Code By: Centerline Computers, Inc. \*

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/injectors/PrimitiveMemberChecker.java

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* Original code by Paul Hammant & Obie Fernandez & Aslak           *
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Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/ComponentMonitor.java

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*                                                                    *
* Idea by Rachel Davies, Original code by various                   *
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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/containers/CompositePicoContainer.java  
\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/MutablePicoContainer.java

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* Original code by Mauro Talevi                                     *
*****/

```

Found in path(s):

\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-  
jar/org/picocontainer/monitors/AbstractComponentMonitor.java

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`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/AbstractBehaviorFactory.java`

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`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/PropertiesPicoContainer.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/MethodInjector.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Intercepting.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/PicoLifecycleException.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ForgetfulConstructorInjection.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Intercepted.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/SystemPropertiesPicoContainer.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/containers/CommandLineArgumentsPicoContainer.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ParameterNameBinding.java`  
`/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/parameters/AbstractParameter.java`

/opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/SingleMemberInjector.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/monitors/ComposingMonitor.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Parameter.java

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\* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

jar/org/picocontainer/containers/EmptyPicoContainer.java

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Found in path(s):

- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Disposable.java
  - \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/Startable.java
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Found in path(s):

- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/ThreadCached.java
- \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/Guarding.java
- \*
  - /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/SetterInjection.java
  - \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/MethodInjection.java
  - \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/AnnotatedMethodInjection.java
  - \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/AdaptingInjection.java
  - \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/injectors/ConstructorInjection.java
  - \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-jar/org/picocontainer/behaviors/ThreadCaching.java
  - \* /opt/cola/permits/1266565840\_1644246713.67/0/picocontainer-2-15-sources-

```
jar/org/picocontainer/injectors/ConstructorInjector.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Storing.java
*
/opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Caching.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/PicoCompositionException.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/OptInCaching.java
* /opt/cola/permits/1266565840_1644246713.67/0/picocontainer-2-15-sources-
jar/org/picocontainer/behaviors/Cached.java
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## 1.141 javax-annotation-api 1.3.2

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## 1.142 proto-google-common-protos 2.5.1

### 1.142.1 Available under license :

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```
*
*
* <pre>
* Early Access features are limited to a closed group of testers. To use
* these features, you must sign up in advance and sign a Trusted Tester
* agreement (which includes confidentiality provisions). These features may
* be unstable, changed in backward-incompatible ways, and are not
* guaranteed
to be released.
* </pre>
*
* <code>EARLY_ACCESS = 1;</code>
*/
```

Found in path(s):

```
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/LaunchStage.java
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/LabelDescriptor.java
```

```
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/UsageRuleOrBuilder.java
```

```
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/Reason.java
```

```
*
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/AuthRequirementOrBuilder.java
```

```
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/SourceInfoProto.java
```

```
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
```

jar/com/google/api/ControlOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/rpc/MethodInfoOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/api/DistributionOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/cloud/audit/AuditLogOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/api/BackendRuleOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/api/VisibilityOrBuilder.java  
\*  
/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/api/HttpRule.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/api/ReasonProto.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/type/Color.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/longrunning/GetOperationRequestOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/api/HttpOrBuilder.java  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/type/PostalAddressOrBuilder.java  
\*  
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jar/com/google/rpc/BadRequestOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/type/ExprOrBuilder.java  
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jar/com/google/type/PhoneNumber.java  
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jar/com/google/cloud/audit/RequestMetadataOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/rpc/MethodInfo.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/api/MetricRule.java  
\*  
/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/longrunning/CancelOperationRequest.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-  
jar/com/google/longrunning/ListOperationsResponseOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/ErrorDetailsProto.java  
 \* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/HttpBodyProto.java  
 \* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/MonitoredResourceDescriptor.java  
 \* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/cloud/OperationResponseMapping.java  
 \* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ProjectProperties.java  
 \*  
 /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/cloud/audit/AuthenticationInfo.java  
 \* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/DocumentationRuleOrBuilder.java  
 \* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/Fraction.java  
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 \* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/IntervalProto.java  
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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/cloud/audit/AuthorizationInfoOrBuilder.java

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\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/UsageRule.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/longrunning/DeleteOperationRequest.java

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/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/QuotaLimitOrBuilder.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/CustomHttpPatternOrBuilder.java

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jar/com/google/api/LabelProto.java

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/cloud/ExtendedOperationsProto.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/LocalizedTextProto.java  
\*  
/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/LocalizedText.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/UsageOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ResourceReference.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/MoneyProto.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/rpc/HelpOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/TimeOfDayOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/cloud/audit/AuthenticationInfoOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/EndpointOrBuilder.java  
\*  
/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ResourceReferenceOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/DateOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/Authentication.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/SystemParametersOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ResourceDescriptorOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/AuthProto.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/type/DateProto.java  
\*  
/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/geo/type/Viewport.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/longrunning/Operation.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/ProjectPropertiesOrBuilder.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/AuthProvider.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/com/google/api/LogProto.java  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

```

jar/com/google/api/Usage.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/BillingProto.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/MetricProto.java
*
/opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/AdviceOrBuilder.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/cloud/audit/ServiceAccountDelegationInfoOrBuilder.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/MetricOrBuilder.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/longrunning/OperationsProto.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/type/DateTimeProto.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/BackendRule.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/type/DateTimeOrBuilder.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/MonitoredResourceMetadataOrBuilder.java
*
/opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/ContextOrBuilder.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/Advice.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/VisibilityProto.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/CustomHttpPattern.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/HttpRuleOrBuilder.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/type/DecimalProto.java
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/com/google/api/ConsumerProto.java

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```

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```

jar/google/api/launch\_stage.proto

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jar/google/api/documentation.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/type/expr.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/cloud/audit/audit\_log.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/api/client.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/api/metric.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/api/annotations.proto

\*

/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/api/distribution.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/api/monitoring.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/api/endpoint.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/rpc/context/attribute\_context.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/type/color.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/api/httpbody.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/type/decimal.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/geo/type/viewport.proto

\*

/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/type/phone\_number.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/api/control.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/type/localized\_text.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

jar/google/type/timeofday.proto

\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/logging/type/http\_request.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/api/service.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/longrunning/operations.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/datetime.proto  
\*  
/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/dayofweek.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/quaternion.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/interval.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/api/resource.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/postal\_address.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/calendar\_period.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/date.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/rpc/code.proto  
\*  
/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/api/label.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/fraction.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/month.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/api/error\_reason.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/logging/type/log\_severity.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/api/field\_behavior.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/api/monitored\_resource.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/cloud/extended\_operations.proto  
\*  
/opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/rpc/error\_details.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-jar/google/type/money.proto  
\* /opt/cola/permits/1278736967\_1646032019.89/0/proto-google-common-protos-2-5-1-sources-

```
jar/google/api/visibility.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/consumer.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/http.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/type/latlng.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/context.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/quota.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/usage.proto
*
/opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/backend.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/log.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/billing.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/rpc/status.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/system_parameter.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/auth.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/logging.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/source_info.proto
* /opt/cola/permits/1278736967_1646032019.89/0/proto-google-common-protos-2-5-1-sources-
jar/google/api/config_change.proto
```

## 1.143 jul-to-slf4j 1.7.36

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\* /opt/cola/permits/1281455938\_1646319090.87/0/jul-to-slf4j-1-7-36-sources-  
jar/org/slf4j/bridge/SLF4JBridgeHandler.java

## 1.144 log4j-over-slf4j 1.7.36

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\* /opt/cola/permits/1282430134\_1646467465.09/0/log4j-over-slf4j-1-7-36-jar/META-INF/maven/org.slf4j/log4j-  
over-slf4j/pom.xml

## 1.145 jersey-media-jaxb 2.35

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- \* License: Apache License, 2.0
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- \* Repackaged in `org.glassfish.jersey.server.validation.internal.hibernate`

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```
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/MustBeClosed.java  
\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CompatibleWith.java  
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\* /opt/cola/permits/1287386049\_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/FormatMethod.java  
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jar/com/google/errorprone/annotations/InlineMeValidationDisabled.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/InlineMe.java
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 */
```

Found in path(s):

```
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CheckReturnValue.java
```

```

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
*
/opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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```

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
*
/opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/ForOverride.java

```

## 1.147 jcl-over-slf4j 1.7.36

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Found in path(s):

\* /opt/cola/permits/1288583223\_1647358914.34/0/jcl-over-slf4j-1-7-36-jar/META-INF/maven/org.slf4j/jcl-over-slf4j/pom.xml

## 1.148 protobuf-java-util 3.19.4

### 1.148.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.google.protobuf.util

Bnd-LastModified: 1643389787246

Build-Jdk: 1.8.0\_181-google-v7

Built-By: acozzette

Bundle-Description: Utilities for Protocol Buffers

Bundle-DocURL: <https://developers.google.com/protocol-buffers/>

Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>

Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffers [Util]

Bundle-SymbolicName: com.google.protobuf.util

Bundle-Version: 3.19.4

Created-By: Apache Maven Bundle Plugin

Export-Package: com.google.protobuf.util;version="3.19.4";uses:="com.google.protobuf,javax.annotation"

Import-Package: com.google.common.base;version="[30.1,31)",com.google.common.io;version="[30.1,31)",com.google.common.math;version="[30.1,31)",com.google.common.primitives;version="[30.1,31)",com.google.gson;version="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobuf;version="[3.19,4)",javax.annotation;version="[3.0,4)"

Require-Capability:

osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /opt/cola/permits/1289964033\_1647508689.51/0/protobuf-java-util-3-19-4-jar/META-INF/MANIFEST.MF

## 1.149 logback-access 1.2.11

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/\*\*

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## 1.151 groovy 3.0.10

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```
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 */

/**
 * The Groovy grammar is based on the official grammar for Java:
 * https://github.com/antlr/grammars-v4/blob/master/java/Java.g4

```

```

*/
lexer grammar GroovyLexer;

options {
    superClass = AbstractLexer;
}

@header {
    import java.util.Deque;
    import java.util.ArrayDeque;
    import java.util.Map;
    import java.util.HashMap;
    import java.util.Set;
    import java.util.HashSet;
    import java.util.Collections;
    import java.util.Arrays;
    import java.util.stream.IntStream;
    import java.util.logging.Logger;
    import java.util.logging.Level;
    import java.util.EmptyStackException;
    import org.apache.groovy.util.Maps;
    import static org.apache.groovy.parser antlr4.SemanticPredicates.*;
}

@members {
    private static final
    Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());

    private boolean errorIgnored;
    private long tokenIndex;
    private int lastTokenType;
    private int invalidDigitCount;

    /**
     * Record the index and token type of the current token while emitting tokens.
     */
    @Override
    public void emit(Token token) {
        this.tokenIndex++;

        int tokenType = token.getType();
        if (Token.DEFAULT_CHANNEL == token.getChannel()) {
            this.lastTokenType = tokenType;
        }

        if (RollBackOne == tokenType) {
            this.rollbackOneChar();
        }
    }
}

```



```

    super.emit(token);
}

private static final int[] REGEX_CHECK_ARRAY = {
    DEC,
    INC,
    THIS,
    RBRACE,
    RBRACK,
    RPAREN,
    GStringEnd,
    NullLiteral,
    StringLiteral,
    BooleanLiteral,
    IntegerLiteral,
    FloatingPointLiteral,
    Identifier, CapitalizedIdentifier
};
static {

    Arrays.sort(REGEX_CHECK_ARRAY);
}

private boolean isRegexAllowed() {
    return (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) < 0);
}

/**
 * just a hook, which will be overridden by GroovyLangLexer
 */
protected void rollbackOneChar() {}

private static class Paren {
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
        this.line = line;
        this.column = column;
    }

    public String getText() {
        return this.text;
    }
}

```

```

    }

    public int getLastTokenType() {
        return this.lastTokenType;
    }

    public int getLine() {
        return line;
    }

    public int getColumn() {
        return column;
    }

    @Override

    public int hashCode() {
        return (int) (text.hashCode() * line + column);
    }

    @Override
    public boolean equals(Object obj) {
        if (!(obj instanceof Paren)) {
            return false;
        }

        Paren other = (Paren) obj;

        return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
    }
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

private final Deque<Paren> parenStack = new ArrayDeque<>(32);

private void enterParen() {
    String text = getText();
    enterParenCallback(text);

    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

private void exitParen() {
    String text = getText();
    exitParenCallback(text);
}

```

```

    Paren paren = parenStack.peek();
    if (null == paren) return;
    parenStack.pop();
}
private boolean isInsideParens() {
    Paren paren = parenStack.peek();

    // We just care about "(" and "[", inside which the new lines will be ignored.
    // Notice: the new lines between "{" and "}" can not be ignored.
    if (null == paren) {
        return false;
    }

    return ("(".equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
    (...)) as parenthesis
        || "[".equals(paren.getText());
}
private void ignoreTokenInsideParens() {
    if (!this.isInsideParens()) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}
private void ignoreMultiLineCommentConditionally() {
    if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
        return;
    }

    this.setChannel(Token.HIDDEN_CHANNEL);
}

@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.LEXER;
}

@Override
public int getErrorLine() {
    return getLine();
}

@Override
public int getErrorColumn() {
    return getCharPositionInLine() + 1;
}

```

```

@Override
public int popMode() {
    try {
        return super.popMode();
    } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or }
        if (LOGGER.isLoggable(Level.FINEST)) {
            LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
        }
    }

    return Integer.MIN_VALUE;
}

private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
    return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
}

private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
    return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
}

public boolean
isErrorIgnored() {
    return errorIgnored;
}

public void setErrorIgnored(boolean errorIgnored) {
    this.errorIgnored = errorIgnored;
}
}

```

// 3.10.5 String Literals

StringLiteral

```

: GStringQuotationMark DqStringCharacter* GStringQuotationMark
| SqStringQuotationMark SqStringCharacter* SqStringQuotationMark
| Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter+ Slash

| TdqStringQuotationMark TdqStringCharacter* TdqStringQuotationMark
| TsqStringQuotationMark TsqStringCharacter* TsqStringQuotationMark
| DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter+
DollarSlashyGStringQuotationMarkEnd
;

```

GStringBegin

```

: GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;

```

```

TdqGStringBegin
  : TdqStringQuotationMark TdqStringCharacter* Dollar -> type(GStringBegin),
pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
SlashyGStringBegin
  : Slash { this.isRegexAllowed() && _input.LA(1) != '*' }? SlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin), pushMode(SLASHY_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
DollarSlashyGStringBegin
  : DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin),
pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;

mode DQ_GSTRING_MODE;
GStringEnd
  : GStringQuotationMark -> popMode
  ;
GStringPart
  : Dollar -> pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
GStringCharacter
  : DqStringCharacter -> more
  ;

mode TDQ_GSTRING_MODE;
TdqGStringEnd
  : TdqStringQuotationMark -> type(GStringEnd), popMode
  ;
TdqGStringPart
  : Dollar -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
TdqGStringCharacter
  : TdqStringCharacter
-> more
  ;

mode SLASHY_GSTRING_MODE;
SlashyGStringEnd
  : Dollar? Slash -> type(GStringEnd), popMode
  ;
SlashyGStringPart
  : Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
SlashyGStringCharacter
  : SlashyStringCharacter -> more
  ;

```

```

;

mode DOLLAR_SLASHY_GSTRING_MODE;
DollarSlashyGStringEnd
: DollarSlashyGStringQuotationMarkEnd -> type(GStringEnd), popMode
;
DollarSlashyGStringPart
: Dollar { isFollowedByJavaLetterInGString(_input) }? -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
;
DollarSlashyGStringCharacter
: DollarSlashyStringCharacter -> more
;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
: '{ { this.enterParen(); } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
;
GStringIdentifier
: IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
;

mode GSTRING_PATH_MODE;
GStringPathPart

: Dot IdentifierInGString
;
RollBackOne
: . {
    // a trick to handle GStrings followed by EOF properly
    int readChar = _input.LA(-1);
    if (EOF == _input.LA(1) && ("" == readChar || "'" == readChar)) {
        setType(GStringEnd);
    } else {
        setChannel(HIDDEN);
    }
} -> popMode
;

mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment
DqStringCharacter
: ~["\r\n\\$]
| EscapeSequence
;

```

```

// character in the single quotation string. e.g. 'a'
fragment SqStringCharacter
: ~["r\n\\]
| EscapeSequence
;

// character in the triple double quotation string. e.g. ""a""
fragment TdqStringCharacter
: ~["\\$]
| GStringQuotationMark { _input.LA(1) != "" || _input.LA(2) != "" || _input.LA(3) == "" && (_input.LA(4) != ""
|| _input.LA(5) != "") }?
| EscapeSequence
;

// character in the triple single quotation string.
e.g. "a"
fragment TsqStringCharacter
: ~["\\]
| SqStringQuotationMark { _input.LA(1) != \" || _input.LA(2) != \" || _input.LA(3) == \" && (_input.LA(4) !=
\" || _input.LA(5) != \") }?
| EscapeSequence
;

// character in the slashy string. e.g. /a/
fragment SlashyStringCharacter
: SlashEscape
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
| ~[/$\u0000]
;

// character in the dollar slashy string. e.g. $/a/$
fragment DollarSlashyStringCharacter
: DollarSlashEscape | DollarDollarEscape
| Slash { _input.LA(1) != '$' }?
| Dollar { !isFollowedByJavaLetterInGString(_input) }?
| ~[/$\u0000]
;

// Groovy keywords
AS      : 'as';
DEF     : 'def';
IN      : 'in';
TRAIT   : 'trait';
THREADSAFE : 'threadsafe'; // reserved keyword

// the reserved type name of Java10

```

VAR : 'var';

// 3.9 Keywords

BuiltInPrimitiveType

: BOOLEAN

| CHAR

|

BYTE

| SHORT

| INT

| LONG

| FLOAT

| DOUBLE

;

ABSTRACT : 'abstract';

ASSERT : 'assert';

fragment

BOOLEAN : 'boolean';

BREAK : 'break';

fragment

BYTE : 'byte';

CASE : 'case';

CATCH : 'catch';

fragment

CHAR : 'char';

CLASS : 'class';

CONST : 'const';

CONTINUE : 'continue';

DEFAULT : 'default';

DO : 'do';

fragment

DOUBLE : 'double';

ELSE : 'else';

ENUM : 'enum';

EXTENDS : 'extends';

FINAL : 'final';

FINALLY : 'finally';

fragment



FLOAT : 'float';

FOR : 'for';

IF : 'if';

GOTO : 'goto';

IMPLEMENTS : 'implements';

IMPORT : 'import';

INSTANCEOF : 'instanceof';

fragment

INT : 'int';

INTERFACE : 'interface';

fragment

LONG : 'long';

NATIVE : 'native';

NEW : 'new';

PACKAGE : 'package';

PRIVATE : 'private';

PROTECTED

: 'protected';

PUBLIC : 'public';

RETURN : 'return';

fragment

SHORT : 'short';

STATIC : 'static';

STRICTFP : 'strictfp';

SUPER : 'super';

SWITCH : 'switch';

SYNCHRONIZED : 'synchronized';

THIS : 'this';

THROW : 'throw';

THROWS : 'throws';

TRANSIENT : 'transient';

TRY : 'try';

VOID : 'void';

VOLATILE : 'volatile';

WHILE : 'while';

// 3.10.1 Integer Literals

IntegerLiteral

```
: ( DecimalIntegerLiteral
  | HexIntegerLiteral
  | OctalIntegerLiteral
  | BinaryIntegerLiteral
  )(Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
```

```
// !!! Error Alternative !!!
| Zero ([0-9] { invalidDigitCount++; })+ { require(errorIgnored, "Invalid octal number", -(invalidDigitCount +
1), true); } IntegerTypeSuffix?
;
```

fragment

Zero

```
: '0'
;
```

fragment

DecimalIntegerLiteral

```
: DecimalNumeral IntegerTypeSuffix?
;
```

fragment

HexIntegerLiteral

```
: HexNumeral IntegerTypeSuffix?
;
```

fragment

OctalIntegerLiteral

```
: OctalNumeral IntegerTypeSuffix?
;
```

fragment

BinaryIntegerLiteral

```
: BinaryNumeral IntegerTypeSuffix?
;
```

fragment

IntegerTypeSuffix

```
: [LiIgG]
;
```

fragment

DecimalNumeral

```
: Zero
| NonZeroDigit (Digits? | Underscores Digits)
;
```

fragment  
Digits  
: Digit (DigitOrUnderscore\* Digit)?  
;

fragment  
Digit  
: Zero  
| NonZeroDigit  
;

fragment  
NonZeroDigit  
: [1-9]  
;

fragment  
DigitOrUnderscore  
: Digit  
| Underscore  
;

fragment  
Underscores  
: Underscore+  
;

fragment  
Underscore  
: '\_'  
;

fragment  
HexNumeral  
: Zero [xX] HexDigits  
;

fragment  
HexDigits  
: HexDigit (HexDigitOrUnderscore\* HexDigit)?  
;

fragment  
HexDigit  
: [0-9a-fA-F]  
;

fragment  
HexDigitOrUnderscore  
: HexDigit  
| Underscore  
;

fragment  
OctalNumeral  
: Zero Underscores? OctalDigits  
;

fragment  
OctalDigits  
: OctalDigit (OctalDigitOrUnderscore\* OctalDigit)?  
;

fragment  
OctalDigit  
: [0-7]  
;

fragment  
OctalDigitOrUnderscore  
: OctalDigit  
| Underscore  
;

fragment  
BinaryNumeral  
: Zero [bB] BinaryDigits  
;

fragment  
BinaryDigits  
: BinaryDigit (BinaryDigitOrUnderscore\* BinaryDigit)?  
;

fragment  
BinaryDigit  
: [01]  
;

fragment  
BinaryDigitOrUnderscore  
: BinaryDigit  
| Underscore  
;

### // 3.10.2 Floating-Point Literals

FloatingPointLiteral

```
: ( DecimalFloatingPointLiteral
  | HexadecimalFloatingPointLiteral
  ) (Underscore { require(errorIgnored, "Number ending with underscores is invalid", -1, true); })?
;
```

fragment

DecimalFloatingPointLiteral

```
: Digits? Dot Digits ExponentPart? FloatTypeSuffix?
| Digits ExponentPart FloatTypeSuffix?
| Digits FloatTypeSuffix
;
```

fragment

ExponentPart

```
: ExponentIndicator
SignedInteger
;
```

fragment

ExponentIndicator

```
: [eE]
;
```

fragment

SignedInteger

```
: Sign? Digits
;
```

fragment

Sign

```
: [+\\-]
;
```

fragment

FloatTypeSuffix

```
: [fFdDgG]
;
```

fragment

HexadecimalFloatingPointLiteral

```
: HexSignificand BinaryExponent FloatTypeSuffix?
;
```

fragment

HexSignificand

```
: HexNumeral Dot?  
| Zero [xX] HexDigits? Dot HexDigits  
;
```

fragment

BinaryExponent

```
: BinaryExponentIndicator SignedInteger  
;
```

fragment

BinaryExponentIndicator

```
: [pP]  
;
```

fragment

Dot : '.'

```
;
```

// 3.10.3 Boolean Literals

BooleanLiteral

```
: 'true'  
| 'false'  
;
```

// 3.10.6 Escape Sequences for Character and String Literals

fragment

EscapeSequence

```
: Backslash [btnfrs"'\]  
| OctalEscape  
| UnicodeEscape  
| DollarEscape  
| LineEscape  
;
```

fragment

OctalEscape

```
: Backslash OctalDigit  
| Backslash OctalDigit OctalDigit  
| Backslash ZeroToThree OctalDigit OctalDigit  
;
```

// Groovy allows 1 or more u's after the backslash

fragment

UnicodeEscape

```
: Backslash 'u' HexDigit HexDigit HexDigit HexDigit
;
```

```
fragment
ZeroToThree
: [0-3]
;
```

```
// Groovy Escape Sequences
```

```
fragment
DollarEscape
: Backslash Dollar
;
```

```
fragment
LineEscape
: Backslash LineTerminator
;
```

```
fragment
LineTerminator
: '\r'? '\n' | '\r'
;
```

```
fragment
SlashEscape
: Backslash Slash
;
```

```
fragment
Backslash
: '\\'
;
```

```
fragment
Slash
: '/'
;
```

```
fragment
Dollar
: '$'
;
```

```
fragment
GStringQuotationMark
: ""
```

```

;

fragment
SqStringQuotationMark
: \"
;

fragment
TdqStringQuotationMark
: """"
;

fragment
TsqStringQuotationMark
: "\\\"
;

fragment
DollarSlashyGStringQuotationMarkBegin
: '$/'
;

fragment
DollarSlashyGStringQuotationMarkEnd
: '/$'
;

fragment
DollarSlashEscape
: '$/'
;

fragment
DollarDollarEscape
: '$$'
;

// 3.10.7
The Null Literal
NullLiteral
: 'null'
;

// Groovy Operators

RANGE_INCLUSIVE  : '..';
RANGE_EXCLUSIVE  : '..<';
SPREAD_DOT       : '*.';

```



```

SAFE_DOT      : '?.';
SAFE_CHAIN_DOT : '??.';
ELVIS         : '?.';
METHOD_POINTER : '.&';
METHOD_REFERENCE : '::';
REGEX_FIND    : '=~';
REGEX_MATCH   : '==~';
POWER         : '**';
POWER_ASSIGN  : '**=';
SPACESHIP    : '<=>';
IDENTICAL    : '===';
NOT_IDENTICAL : '!===';
ARROW        : '->';

```

// !internalPromise will be parsed as !internalPromise, so semantic predicates are necessary

```

NOT_INSTANCEOF : 'instanceof' { isFollowedBy(_input, ' ', '\t', '\r', '\n') }?;
NOT_IN        : '!in'      { isFollowedBy(_input, ' ', '\t', '\r', '\n', '[', '(', '{') }?;

```

// 3.11 Separators

```

LPAREN      : '(' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RPAREN      : ')' { this.exitParen(); } -> popMode;

```

```

LBRACE      : '{' { this.enterParen();
  } -> pushMode(DEFAULT_MODE);
RBRACE      : '}' { this.exitParen(); } -> popMode;

```

```

LBRACK      : '[' { this.enterParen(); } -> pushMode(DEFAULT_MODE);
RBRACK      : ']' { this.exitParen(); } -> popMode;

```

```

SEMI        : ';';
COMMA       : ',';
DOT         : '.';

```

// 3.12 Operators

```

ASSIGN      : '=';
GT          : '>';
LT          : '<';
NOT         : '!';
BITNOT      : '~';
QUESTION    : '?';
COLON       : ':';
EQUAL       : '==';
LE         : '<=';
GE         : '>=';
NOTEQUAL    : '!=';

```

AND : '&&';  
OR : '||';  
INC : '++';  
DEC : '--';  
ADD : '+';  
SUB : '-';  
MUL : '\*';  
DIV : Slash;  
BITAND : '&';  
BITOR : '|';  
XOR : '^';  
MOD : '%';

ADD\_ASSIGN : '+=';  
SUB\_ASSIGN : '-=';  
MUL\_ASSIGN : '\*=';  
DIV\_ASSIGN : '/=';  
AND\_ASSIGN :  
'&=';  
OR\_ASSIGN : '|=';  
XOR\_ASSIGN : '^=';  
MOD\_ASSIGN : '%=';  
LSHIFT\_ASSIGN : '<<=';  
RSHIFT\_ASSIGN : '>>=';  
URSHIFT\_ASSIGN : '>>>=';  
ELVIS\_ASSIGN : '?=';

// 3.8 Identifiers (must appear after all keywords in the grammar)

CapitalizedIdentifier

: JavaLetter {Character.isUpperCase(\_input.LA(-1))}? JavaLetterOrDigit\*  
;

Identifier

: JavaLetter JavaLetterOrDigit\*  
;

fragment

IdentifierInGString

: JavaLetterInGString JavaLetterOrDigitInGString\*  
;

fragment

JavaLetter

: [a-zA-Z\$\_] // these are the "java letters" below 0x7F  
| // covers all characters above 0x7F which are not a surrogate  
~[\u0000-\u007F\uD800-\uDBFF]

```

    { isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
  [\uD800-\uDBFF] [\uDC00-\uDFFF]
  { Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?

;

fragment
JavaLetterInGString
: JavaLetter { _input.LA(-1) != '$' }?
;

fragment
JavaLetterOrDigit
: [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F
| // covers all characters above 0x7F which are not a surrogate
  ~[\u0000-\u007F\uD800-\uDBFF]
  { isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
| // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
  [\uD800-\uDBFF] [\uDC00-\uDFFF]
  { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
;

fragment
JavaLetterOrDigitInGString
: JavaLetterOrDigit { _input.LA(-1) != '$' }?
;

fragment
ShCommand
: ~[\r\n\uFFFF]*
;

//
// Additional symbols not defined in the lexical specification
//

AT : '@';
ELLIPSIS : '...';

//
// Whitespace, line escape and comments
//
WS : ([\t]+ | LineEscape+) -> skip
;

// Inside (...) and [...] but not {...}, ignore newlines.
NL : LineTerminator

```

```

    { this.ignoreTokenInsideParens(); }
;

// Multiple-line comments (including groovydoc comments)
ML_COMMENT
: /*! .*? */ { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
;

// Single-line comments
SL_COMMENT
: /* ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); } -> type(NL)
;

// Script-header comments.
// The very first characters of the file may be "#!". If so, ignore the first line.
SH_COMMENT
: '#!' { require(errorIgnored || 0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); }
ShCommand (LineTerminator '#!' ShCommand)* -> skip
;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
: . { require(errorIgnored, "Unexpected character: " + getText().replace("'", "\'") + "'", -1, false); }
;

```

Found in path(s):

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/GroovyLexer.g4

No license file was found, but licenses were detected in source scan.

```

/** Java 1.5 Recognizer
*
* Run 'java Main [-showtree] directory-full-of-java-files'
*
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]
*
* Run 'java Main <directory full of java files>'
*
* Contributing authors:
*   Jeremy Rayner   groovy@ross-rayner.com
*   John Mitchell  johnm@non.net
*   Terence Parr   parrt@magelang.com
*   John Lilley    jlilley@empathy.com
*   Scott Stanchfield thetick@magelang.com
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*   Peter Williams pete.williams@sun.com
*   Allan Jacobs   Allan.Jacobs@eng.sun.com
*   Steve Messick  messick@redhills.com

```

- \* John Pybus john@pybus.org
- \*
- \* Version 1.00 December 9, 1997 -- initial release
- \* Version 1.01 December 10, 1997
- \* fixed bug in octal def (0..7 not 0..8)
- \* Version 1.10 August 1998 (parrrt)
- \* added tree construction
- \* fixed definition of WS,comments for mac,pc,unix newlines
- \* added unary plus
- \* Version 1.11 (Nov 20, 1998)
- \* Added "shutup" option to turn off last ambig warning.
- \* Fixed inner class def to allow named class defs as statements
- \* synchronized requires compound not simple statement
- \* add [] after builtInType DOT class in primaryExpression
- \* "const" is reserved but not valid..removed from modifiers
- \* Version 1.12 (Feb 2, 1999)
- \* Changed LITERAL\_XXX to XXX in tree grammar.
- \* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
- \*
- \* Version 1.13 (Apr 23, 1999)
- \* Didn't have (stat)? for else clause in tree parser.
- \* Didn't gen ASTs for interface extends. Updated tree parser too.
- \* Updated to 2.6.0.
- \* Version 1.14 (Jun 20, 1999)
- \* Allowed final/abstract on local classes.
- \* Removed local interfaces from methods
- \* Put instanceof precedence where it belongs...in relationalExpr
- \* It also had expr not type as arg; fixed it.
- \* Missing ! on SEMI in classBlock
- \* fixed: (expr) + "string" was parsed incorrectly  
(+ as unary plus).
- \* fixed: didn't like Object[].class in parser or tree parser
- \* Version 1.15 (Jun 26, 1999)
- \* Screwed up rule with instanceof in it. :( Fixed.
- \* Tree parser didn't like (expr).something; fixed.
- \* Allowed multiple inheritance in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
- \* Extending an interface built a wacky tree: had extra EXTENDS.
- \* Tree grammar didn't allow multiple superinterfaces.
- \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
- \* ESC lexer rule allowed 399 max not 377 max.
- \* java.tree.g didn't handle the expression of synchronized  
statements.
- \* Version 1.18 (August 12, 2001)
- \* Terence updated to Java 2 Version 1.3 by  
observing/combining work of Allan Jacobs and Steve  
Messick. Handles 1.3 src. Summary:

- \* o primary didn't include boolean.class kind of thing
- \* o constructor calls parsed explicitly now:
- \* see explicitConstructorInvocation
- \* o add strictfp modifier
- \* o missing objBlock after new expression in tree grammar
- \* o merged local class definition alternatives, moved after declaration
- \* o fixed problem with ClassName.super.field
- \* o reordered some alternatives to make things more efficient
- \* o long and double constants were not differentiated from int/float
- \* o whitespace rule was inefficient: matched only one char
- \* o add an examples directory with some nasty 1.3 cases
- \* o made Main.java use buffered IO and a Reader for Unicode support
- \* o supports UNICODE?
- \* Using Unicode charVocabulay makes code file big, but only
- \* in the bitsets at the end. I need to make ANTLR generate
- \* unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
- \* Terence added in nice fixes by John Pybus concerning floating
- \* constants and problems with super() calls. John did a nice
- \* reorg of the primary/postfix expression stuff to read better
- \* and makes f.g.super() parse properly (it was
- METHOD\_CALL not
- \* a SUPER\_CTOR\_CALL). Also:
- \*
- \* o "finally" clause was a root...made it a child of "try"
- \* o Added stuff for asserts too for Java 1.4, but \*commented out\*
- \* as it is not backward compatible.
- \*
- \* Version 1.20 (October 27, 2002)
- \*
- \* Terence ended up reorging John Pybus' stuff to
- \* remove some nondeterminisms and some syntactic predicates.
- \* Note that the grammar is stricter now; e.g., this(...) must
- \* be the first statement.
- \*
- \* Ternary ?: operator wasn't working as array name:
- \* (isBig ? bigDigits : digits)[i];
- \*
- \* Checked parser/tree parser on source for
- \* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
- \* and the 110k-line jGuru server source.
- \*
- \* Version 1.21 (October 17, 2003)
- \* Fixed lots of problems including:
- \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
- \* He found a problem/fix with floating point that start with 0
- \* Ray also fixed problem that (int.class) was not recognized.

- \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
- \* TJP fixed CHAR\_LITERAL analogously.
- \*
- \* Version 1.21.2 (March, 2003)
- \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- \* Notes:
  - \* o We only allow the "extends" keyword and not the "implements" keyword, since that's what JSR14 seems to imply.
  - \* o Thanks to Monty Zukowski for his help on the antlr-interest mail list.
  - \* o Thanks to Alan Eliassen for testing the grammar over his Fink source base
- \*
- \* Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
- \* Notes:
  - \* o Added support for annotations types
  - \* o Finished off Matt Quail's generics enhancements to support bound type arguments
  - \* o Added support for new for statement syntax
  - \* o Added support for static import syntax
  - \* o Added support for enum types
  - \* o Tested against JDK 1.5 source base and source base of jdigraph project
  - \* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
  - \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
  - \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
  - \* o Enabled type parameters on constructors, annotations on enum constants and package definitions
  - \* o Fixed problems when parsing `((char.class.equals(c))) {}` - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)
- \* Slight refactoring of Java 1.5 language support
  - \* o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
  - \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
  - \* and other refactorings
  - \* o Fixed typeParameters omission in identPrimary and newStatement
  - \* o Replaced GT reconciliation code with simple semantic predicate
  - \* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar

- \* o Refactored typeDefinition production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
- \* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
- \* o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
- \* o Fixed bug in array declarations identified by Geoff Roy
- \*
- \* Version 1.22.4.j.1
- \* Changes by Jeremy Rayner to support java2groovy tool
- \* o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
- \* and have made some changes to enable use by java2groovy tool (Jan 2007)
- \*
- \* Based on an original grammar released in the PUBLIC DOMAIN
- \*/

Found in path(s):

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java

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\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java

\*

/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-

jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java



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jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/control/customizers/SecureASTCustomizer.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/ClosureException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/antlr/treewalker/NodeCollector.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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*
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/control/messages/Message.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/NumberRange.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/vmplugin/v9/ClassFindFailedException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/antlr/AntlrASTProcessSnippets.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/util/Arrays.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/IntRange.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/cli/Option.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/expr/BinaryExpression.java

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\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/parser/antlr4/AstBuilder.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/metaclass/MetaClassRegistryImpl.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/Expression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/stc/PickFirstResolver.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/DoubleArrayIterable.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/Finalizable.java  
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 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/ReferenceBundle.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/PackageScopeASTTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/syntax/Token.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/java/Groovifier.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/beans/PropertyAccessor.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/parser/antlr4/util/StringUtils.java  
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 jar/groovy/transform/AnnotationCollectorMode.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/messages/SimpleMessage.java



\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/GroovyScriptEngine.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/treewalker/NodePrinter.java  
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 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Grapes.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/javac/JavacJavaCompiler.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/ObservableSet.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/ClassGeneratorException.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/trait/Traits.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/ast/tools/VisibilityUtils.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/ManagedReference.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-

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jar/org/codehaus/groovy/transform/LogASTTransformation.java
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/transform/stc/FromAbstractTypeMethods.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/TracingInterceptor.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/TestMethod.java  
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jar/groovy/lang/ClosureInvokingMethod.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/antlr/GroovySourceAST.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/classgen/ClassGenerator.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/SelfType.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/AutoFinal.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Reference.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/util/ListHashMap.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/callsite/CallSiteAwareTestMethod.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/tools/shell/IO.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/vmplugin/v9/ClassFinder.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/wrappers/DoubleWrapper.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/transform/stc/TypeCheckingContext.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/BytecodeInterface8.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/reflection/CachedMethod.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/powerassert/SourceTextNotAvailableException.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/ToString.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/beans/ListenerList.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/TupleConstructor.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/security/GroovyCodeSourcePermission.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/stc/TraitTypeCheckingExtension.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/stmt/LoopingStatement.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/stc/FirstParam.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/BinaryBooleanExpressionHelper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/typehandling/FloatingPointMath.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/parser/antlr4/SyntaxErrorReportable.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/ConversionHandler.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/stc/TypeCheckingExtension.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/SpreadExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/stdclasses/ArrayCachedClass.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/Janitor.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/WriterController.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/ConfigSlurper.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/tools/ClosureUtils.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/cli/CliBuilderException.groovy  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/typehandling/GroovyCastException.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/EncodingGroovyMethodsSupport.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/decompiled/LazyFieldNode.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/GroovyStarter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/beans/Vetoable.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/AntlrParserPlugin.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Closure.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/util/TypeUtil.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/IntArrayIterator.java  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/ClassExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/TypeChooser.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/ClassInfo.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/io/PlatformLineWriter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/stmt/ContinueStatement.java  
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 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Tuple5.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/memoize/EvictableCache.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/BytecodeSequence.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/callsite/GroovySunClassLoader.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/LongArrayGetAtMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/FileTreeBuilder.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/wrappers/IntWrapper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/InnerClassVisitor.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/ClosureExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/metaclass/ReflectorLoader.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/sc/AbstractFunctionalInterfaceWriter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/MissingFieldException.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/memoize/UnlimitedConcurrentCache.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/MethodNode.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/sc/transformers/CompareToNullExpression.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/stc/SecondParam.java

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/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/gse/DependencyTracker.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/logging/Slf4j.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/memoize/NullProtectionStorage.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/io/EncodingAwareBufferedWriter.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/RootLoader.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/v7/GroovyClassValueJava7.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/stc/StaticTypeCheckingSupport.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/stdclasses/NumberCachedClass.java

\*

/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/Proxy.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/InheritConstructors.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/customizers/builder/PostCompletionFactory.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/sc/StaticPropertyAccessHelper.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/MetaClassImpl.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/AccessPermissionChecker.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/LexerAtnManager.java

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/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/LambdaExpression.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/GrapeMain.groovy

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/syntax/ParserException.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/AbstractASTTransformation.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/typehandling/BigIntegerMath.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/ParserPlugin.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/beans/BindableASTTransformation.java

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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/metaclass/MissingPropertyExceptionNoStack.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/util/LongArrayIterable.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/control/GenericsVisitor.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/VariableScope.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/apache/groovy/antlr/LexerFrame.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayPutAtMetaMethod.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/wrappers/Wrapper.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMinus.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/apache/groovy/ast/tools/ConstructorNodeUtils.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/lang/IncorrectClosureArgumentsException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Tuple2.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/control/io/URLReaderSource.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/reflection/GroovyClassValue.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/transform/IndexedProperty.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/ReadWriteLockASTTransformation.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/transform/WithWriteLock.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/beans/Bindable.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/vmplugin/v5/JUnit4Utils.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/EnumVisitor.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/antlr/treewalker/FlatNodeListTraversal.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/AutoFinalASTTransformation.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/lang/DeprecationException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/cli/UnparsedField.groovy
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/trait/TraitASTTransformation.java

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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/stc/SecondPassExpression.java
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/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/decompiled/DecompiledClassNode.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/GroovyBugError.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/reflection/CachedClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/MethodInvocationTrap.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/antlr/treewalker/VisitorAdapter.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayPutAtMetaMethod.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/time/Duration.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/VariableScopeVisitor.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/Main.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/MetaObjectProtocol.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/apache/groovy/util/ScriptRunner.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/reflection/stdclasses/StringCachedClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/InvokerInvocationException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/expr/AttributeExpression.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/AutoImplement.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/DefaultMethodKey.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesWriterControllerFactoryImpl.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/OrderBy.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/vmplugin/v7/MethodHandleWrapper.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/RegexSupport.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/expr/DeclarationExpression.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/NullCheck.java
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/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/beans/DefaultPropertyAccessor.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/RangeInfo.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/decompiled/AsmReferenceResolver.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/transform/PackageScopeTarget.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Script.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/AnnotationCollectorTransform.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/ExternalizeMethodsASTTransformation.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/StaticVerifier.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/reflection/stdclasses/CachedClosureClass.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/Parameter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/transform/builder/InitializerStrategy.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/ObservableList.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/MixinNode.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/BinaryExpressionMultiTypeDispatcher.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/powerassert/SourceText.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/metaclass/NewMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/LabelVerifier.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/lang/ExpandoMetaClassCreationHandle.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/syntax/RuntimeParserException.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Tuple10.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/wrappers/ShortWrapper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/indy/IndyCallSiteWriter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Writable.java

\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/classgen/asm/BinaryFloatExpressionHelper.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/syntax/TokenException.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/transform/InheritConstructorsASTTransformation.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/reflection/stdclasses/CachedSAMClass.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/DefaultGroovyStaticMethods.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/wrappers/CharWrapper.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/classgen/asm/MopWriter.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/m12n/SimpleExtensionModule.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/MethodKey.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/tools/Utilities.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/runtime/callsite/PlainObjectMetaMethodSite.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/groovy/transform/ThreadInterrupt.groovy  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/ast/decompiled/Annotations.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/util/AbstractConcurrentMapBase.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/transform/sc/StaticCompilationVisitor.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/classgen/asm/DelegatingController.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/ast/expr/NamedArgumentListExpression.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/ast/AnnotatedNode.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/control/CompilationFailedException.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/antlr/EnumHelper.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/ast/expr/ExpressionTransformer.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/codehaus/groovy/util/ListBufferedIterator.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-

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jar/org/codehaus/groovy/ast/stmt/EmptyStatement.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/tools/javac/JavaAwareCompilationUnit.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/asm/MethodReferenceExpressionWriter.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/GeneratorContext.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/lang/SpreadMapEvaluatingException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/stmt/SynchronizedStatement.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/antlr/GroovySourceToken.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/decompiled/LazyMethodNode.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/ExpandoMetaClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/tailrec/VariableExpressionReplacer.groovy
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Delegate.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/antlr/treewalker/CompositeVisitor.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/BufferedIterator.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/util/IntArrayIterable.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/ui/GroovySocketServer.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/powerassert/ValueRecorder.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/Expando.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/GroovyCategorySupport.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/metaclass/MixinInstanceMetaMethod.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/reflection/stdclasses/IntegerCachedClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/vmplugin/v6/Java6.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/control/ErrorCollector.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/DefaultGroovyMethodsSupport.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/wrappers/FloatWrapper.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-

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jar/groovy/transform/stc/ClosureSignatureConflictResolver.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/apache/groovy/parser/antlr4/GroovyLangLexer.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/util/TripleKeyHashMap.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaClassSite.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/sc/transformers/ConstructorCallTransformer.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Newify.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/ASTNode.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/transform/ImmutableOptions.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/WithReadLock.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/AdaptingMetaClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/m12n/StandardPropertiesModuleFactory.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/memoize/LRUCache.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/reflection/MixinInMetaClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/transform/ImmutableBase.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/transform/builder/ExternalStrategy.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/asm/BinaryExpressionHelper.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/ArrayUtil.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/GroovyInterceptable.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/CompileStatic.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/stmt/CaseStatement.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/callsite/StaticMetaClassSite.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/PropertyValue.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/typehandling/NumberMath.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/reflection/stdclasses/ObjectCachedClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java
*

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/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/PerInstancePojoMetaClassSite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/Sortable.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/EqualsAndHashCodeASTTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberDiv.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/StaticMethodCallExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/customizers/ASTTransformationCustomizer.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/OperandStack.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/indy/IndyBinHelper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/antlr/PrimitiveHelper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/CastExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/vmplugin/v8/CacheableCallSite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/AsmClassGenerator.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/antlr/LexerFrame.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/BooleanArrayPutAtMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/Memoized.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/util/URLStreams.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/EmptyExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayGetAtMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/ArgumentListExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Tuple6.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/ClosureListExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/util/ArrayIterator.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/tools/javac/RawJavaFileObject.java  
 \*

/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/transform/builder/SimpleStrategy.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/CompilePhase.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/DummyCallSite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/tailrec/InWhileLoopWrapper.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/MetaClassRegistry.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/ClassHelper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/io/FileType.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 jar/groovy/transform/stc/ClosureSignatureHint.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/lang/groovydoc/Groovydoc.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/builder/Builder.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/AbstractASTTransformUtil.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/StaticTypesTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/tailrec/RecursivenessTester.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/util/Reference.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/FieldNode.java  
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 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/reflection/stdclasses/BigIntegerCachedClass.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/ExpressionAsVariableSlot.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/PogoGetPropertySite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/lang/MetaArrayLengthProperty.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/ObjectRange.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/stc/AbstractTypeCheckingExtension.java

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/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassGetPropertySite.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/AnnotationVisitor.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/BytecodeProcessor.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/android/AndroidSupport.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/tailrec/CollectRecursiveCalls.groovy  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/SunClassLoader.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/customizers/ImportCustomizer.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/plugin/GroovyRunner.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/time/TimeDuration.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Tuple16.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/vmplugin/VMPlugin.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/MapEntry.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/io/GroovyPrintStream.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/MultipleCompilationErrorsException.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/GroovyCodeSource.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayGetAtMetaMethod.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/ExternalizeVerifierASTTransformation.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/metaclass/Realm.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/ConstructorCallExpression.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/util/Maps.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/vmplugin/v8/MethodHandleWrapper.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/sc/TemporaryVariableExpression.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/BaseScriptASTTransformation.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/DelegateASTTransformation.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/memoize/LRUProtectionStorage.java

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/beans/PropertyWriter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/metaclass/MixinInstanceMetaProperty.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/GrabConfig.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/Field.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/logging/Log.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayGetAtMetaMethod.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/beans/PropertyReader.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/NodePrinter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/vmplugin/v8/TypeTransformers.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/ExternalizeVerifier.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/callsite/CallSite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/customizers/SourceAwareCustomizer.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/stc/Receiver.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionWriter.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/sc/transformers/BinaryExpressionTransformer.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/metaclass/ReflectionMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/ManagedConcurrentValueMap.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/SpreadMapExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/sc/transformers/StaticCompilationTransformer.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/io/NullWriter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/LockableObject.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/callsite/ConstructorSite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/grape/GrapeIvy.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/NamedVariantASTTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/BaseScript.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-



jar/org/codehaus/groovy/runtime/metaclass/ClosureStaticMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/antlr/LineColumn.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Tuple9.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/IndentPrinter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesCallSiteWriter.java  
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 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/customizers/builder/CompilerCustomizationBuilder.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/util/HashCodeHelper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/ProxyGenerator.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/grape/GrabAnnotationTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/metaclass/ClosureMetaClass.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/antlr/AntlrParserPluginFactory.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaMethodSite.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/tools/ParameterUtils.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ObjectArrayPutAtMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/ScriptBytecodeAdapter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/apache/groovy/parser/antlr4/Antlr4ParserPlugin.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/customizers/builder/ASTTransformationCustomizerFactory.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/trait/NaryOperationRewriter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/metaclass/MethodHelper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/MapEntryExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMultiply.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/transform/stc/SingleSignatureClosureHint.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-

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jar/groovy/lang/DelegatingMetaClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/util/AbstractConcurrentMap.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/trait/SuperCallTraitTransformer.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/tools/DgmConverter.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/vmplugin/v7/IndyArrayAccess.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/util/SingleKeyHashMap.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/ReturnAdder.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/expr/ElvisOperatorExpression.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/util/BeanUtils.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/beans/VetoableASTTransformation.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/typehandling/IntegerMath.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/GroovyExceptionInterface.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/WritableFile.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/callsite/ClassMetaClassGetPropertySite.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/TransformingCodeVisitor.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Sequence.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/tailrec/StatementReplacer.groovy
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/reflection/CachedField.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/tools/GroovyClass.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/ReverseListIterator.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayPutAtMetaMethod.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/stmt/ForStatement.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/transform/VisibilityOptions.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/AbstractFactory.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-

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jar/groovy/lang/GroovyRuntimeException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/util/ManagedConcurrentMap.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesStatementWriter.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/vmplugin/v7/Selector.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/metaclass/TransformMetaMethod.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/tools/StringHelper.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/DateGroovyMethods.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayPutAtMetaMethod.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/stc/SharedVariableCollector.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/lang/GeneratedGroovyProxy.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/logging/Log4j.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/tools/ClassNodeUtils.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/AstToTextHelper.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/syntax/ReadException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayGetAtMetaMethod.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/callsite/NullCallSite.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Tuple7.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/time/TimeDatumDependentDuration.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/util/ReleaseInfo.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/syntax/Reduction.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Lazy.java
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/ResourceConnector.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/stc/SignatureCodecVersion1.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/callsite/CallSiteGenerator.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/metaclass/TemporaryMethodKey.java

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\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/syntax/ASTHelper.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/powerassert/Value.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/metaclass/ClosureMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/io/ReaderSource.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/MetaClassSite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/sc/transformers/BooleanExpressionTransformer.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/memoize/CommonCache.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/MethodSite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/MapConstructorASTTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/ASTTransformationsContext.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/AbstractCallSite.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/transform/builder/DefaultStrategy.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/syntax/Numbers.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/stc/DelegationMetadata.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
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 jar/org/codehaus/groovy/util/IteratorBufferedIterator.java

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/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/MetaClassRegistryChangeEventListner.java  
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\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/ConstantExpression.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/options/ImmutablePropertyHandler.java  
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\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/AnnotationConstantsVisitor.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/memoize/ConcurrentCommonCache.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/InvokerHelper.java  
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\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/SynchronizedASTTransformation.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/trait/TraitReceiverTransformer.java  
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\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/shell/util/Logger.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/StringBufferWriter.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-

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jar/org/codehaus/groovy/ast/expr/VariableExpression.java
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jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/NodeList.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
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 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/ReflectionMethodInvoker.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/util/PermutationGenerator.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/stc/ExtensionMethodCache.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/vmplugin/v8/IndyInterface.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/MethodCaller.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/tools/shell/util/Preferences.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/builder/AstBuilderTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/MetaClass.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/apache/groovy/metaclass/MetaClass.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/apache/groovy/internal/metaclass/MetaClassConstant.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/ToStringASTTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/RangeExpression.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/BooleanArrayGetAtMetaMethod.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/transform/stc/MapEntryOrKeyValue.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/BuilderSupport.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/CodeVisitorSupport.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/reflection/stdclasses/LongCachedClass.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/StaticImportVisitor.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/InvocationWriter.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/apache/groovy/ast/tools/ImmutablePropertyUtils.java  
 \*



/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/stc/EnumTypeCheckingExtension.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/DoubleArrayIterator.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/TimedInterrupt.groovy  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/callsite/CallSiteArray.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/java/Java2GroovyMain.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/AssertionWriter.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/messages/WarningMessage.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/MapConstructor.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/FileSystemCompiler.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/NamedDelegate.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/m12n/ExtensionModuleRegistry.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/Phases.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/ASTTransformation.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/treewalker/NodeAsHTMLPrinter.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/CompilerConfiguration.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/Factory.java  
\*  
/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/util/ManagedConcurrentLinkedQueue.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/apache/groovy/util/SystemUtil.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/ParameterArray.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/InterfaceHelperClassNode.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayMetaMethod.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/transform/sc/StaticCompileTransformation.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/GroovyClassLoader.java  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/memoize/StampedCommonCache.java  
\*

/opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/typehandling/NumberMathModificationInfo.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/MetaProperty.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/powerassert/AssertionRenderer.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/TernaryExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/groovy/util/FactoryBuilderSupport.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/TimedInterruptibleASTTransformation.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/sc/transformers/MethodCallExpressionTransformer.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/ConvertedClosure.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/reflection/stdclasses/FloatCachedClass.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/sc/transformers/StaticMethodCallExpressionTransformer.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/genArrayAccess.groovy  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/expr/ArrayExpression.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/stmt/ReturnStatement.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/inspect/Inspector.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/classgen/asm/sc/StaticInvocationWriter.java  
 \*  
 /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/callsite/PogoMetaMethodSite.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/InstanceOfVerifier.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/apache/groovy/internal/util/ReevaluatingReference.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/runtime/memoize/ValueConvertible.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/ast/ImportNode.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/transform/NewifyASTTransformation.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/control/io/StringReaderSource.java  
 \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
 jar/org/codehaus/groovy/util/CharSequenceReader.java

```
*
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/transform/NamedParams.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/groovy/transform/options/LegacyHashMapPropertyHandler.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/control/customizers/DelegatingCustomizer.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/GroovyCollections.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/ast/ConstructorNode.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/classgen/FinalVariableAnalyzer.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/Interceptor.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/transform/ConditionalInterruptibleASTTransformation.groovy
*
```

```
/opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/syntax/TokenMismatchException.java
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/codehaus/groovy/runtime/MetaClassHelper.java
```

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```

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*
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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java
```

```
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java
```

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```

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*
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Found in path(s):

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-  
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EntryWeigher.java  
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\* This file is adapted from the Antlr4 Java grammar which has the following license  
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\*/  
  
/\*\*

```

* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
parser grammar GroovyParser;

options {
    tokenVocab = GroovyLexer;
    contextSuperClass = GroovyParserRuleContext;
    superClass = AbstractParser;
}

@header {
    import java.util.Map;
    import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

    public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
        private Map metaDataMap = null;

        public GroovyParserRuleContext() {}

        public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
            super(parent, invokingStateNumber);
        }

        @Override
        public Map<?, ?> getMetaDataMap() {
            return this.metaDataMap;
        }

        @Override
        public void setMetaDataMap(Map<?, ?> metaDataMap) {
            this.metaDataMap = metaDataMap;
        }
    }

    @Override
    public int getSyntaxErrorSource() {
        return GroovySyntaxError.PARSER;
    }

    @Override
    public int getErrorLine() {
        Token token = _input.LT(-1);

        if (null == token) {

```

```

        return -1;
    }

    return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);

    if (null == token) {
        return -1;
    }

    return token.getCharPositionInLine() + 1 + token.getText().length();
}
}

// starting point for parsing a groovy file
compilationUnit
: nls (packageDeclaration sep)? scriptStatements? EOF
;

scriptStatements
: scriptStatement (sep scriptStatement)* sep?
;

scriptStatement
: importDeclaration
// Import statement. Can be used in any scope. Has "import x as y" also.
| typeDeclaration
// validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
| { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
methodDeclaration[3, 9]
| statement
;

packageDeclaration
: annotationsOpt PACKAGE qualifiedName
;

importDeclaration
: annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
;

typeDeclaration
: classOrInterfaceModifiersOpt classDeclaration

```

```

;

modifier
: classOrInterfaceModifier
| m=( NATIVE
  | SYNCHRONIZED
  | TRANSIENT
  | VOLATILE
  | DEF
  | VAR
  )
;

modifiersOpt
: (modifiers nls)?
;

modifiers
: modifier (nls modifier)*
;

classOrInterfaceModifiersOpt
: (classOrInterfaceModifiers
  NL* /* Use `NL*` here for better performance,
so DON'T replace it with `nls` */
  )?
;

classOrInterfaceModifiers
: classOrInterfaceModifier (nls classOrInterfaceModifier)*
;

classOrInterfaceModifier
: annotation // class or interface
| m=( PUBLIC // class or interface
  | PROTECTED // class or interface
  | PRIVATE // class or interface
  | STATIC // class or interface
  | ABSTRACT // class or interface
  | FINAL // class only -- does not apply to interfaces
  | STRICTFP // class or interface
  | DEFAULT // interface only -- does not apply to classes
  )
;

variableModifier
: annotation
| m=( FINAL

```

```

| DEF
| VAR
// Groovy supports declaring local variables as instance/class fields,
// e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
// e.g. import groovy.transform.*; def a = { @Field public List awe
= [1, 2, 3] }
// Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
annotations(e.g. @Field)
// TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
as it is for the time being
| PUBLIC
| PROTECTED
| PRIVATE
| STATIC
| ABSTRACT
| STRICTFP
)
;

variableModifiersOpt
: (variableModifiers nls)?
;

variableModifiers
: variableModifier (nls variableModifier)*
;

typeParameters
: LT nls typeParameter (COMMA nls typeParameter)* nls GT
;

typeParameter
: className (EXTENDS nls typeBound)?
;

typeBound
: type (BITAND nls type)*
;

typeList
: type (COMMA nls type)*
;

/**
* t 0: class; 1: interface; 2: enum; 3: annotation; 4:

```



```

trait
*/
classDeclaration
locals[ int t ]
: ( CLASS { $t = 0; }
  | INTERFACE { $t = 1; }
  | ENUM { $t = 2; }
  | AT INTERFACE { $t = 3; }
  | TRAIT { $t = 4; }
  )
identifier
(nls typeParameters)?
(nls EXTENDS nls scs=typeList)?
(nls IMPLEMENTS nls is=typeList)?
nls classBody[$t]
;

// t see the comment of classDeclaration
classBody[int t]
: LBRACE nls
  (
    /* Only enum can have enum constants */
    { 2 == $t }?
    enumConstants (nls COMMA)? sep?
  |
  )
  (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
;

enumConstants
: enumConstant (nls COMMA nls enumConstant)*
;

enumConstant
: annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
;

classBodyDeclaration[int t]
: (STATIC nls)? block
| memberDeclaration[$t]
;

memberDeclaration[int t]
: methodDeclaration[0,
$t]
| fieldDeclaration
| modifiersOpt classDeclaration
;

```

```

/**
 * t 0: *class member* all kinds of method declaration AND constructor declaration,
 * 1: normal method declaration, 2: abstract method declaration
 * 3: normal method declaration OR abstract method declaration
 * ct 9: script, other see the comment of classDeclaration
 */

```

```

methodDeclaration[int t, int ct]
 : modifiersOpt typeParameters? (returnType[$ct] nls)?
   methodName formalParameters
   (
     DEFAULT nls elementValue
   |
     (nls THROWS nls qualifiedClassNameList)?
     (nls methodBody)?
   )?
 ;

```

```

methodName
 : identifier
 | stringLiteral
 ;

```

```

returnType[int ct]
 :
   standardType
 | VOID
 ;

```

```

fieldDeclaration
 : variableDeclaration[1]
 ;

```

```

variableDeclarators
 : variableDeclarator (COMMA nls variableDeclarator)*
 ;

```

```

variableDeclarator
 : variableDeclaratorId (nls ASSIGN nls variableInitializer)?
 ;

```

```

variableDeclaratorId
 : identifier
 ;

```

```

variableInitializer
 : enhancedStatementExpression
 ;

```

```
variableInitializers
  : variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
  ;
```

```
emptyDims
  : (annotationsOpt LBRACK RBRACK)+
  ;
```

```
emptyDimsOpt
  : emptyDims?
  ;
```

```
standardType
options { baseContext = type; }
  : annotationsOpt
    (
      primitiveType
    |
      standardClassOrInterfaceType
    )
    emptyDimsOpt
  ;
```

```
type
  : annotationsOpt
    (
      (
        primitiveType
      |
        // !!! Error Alternative !!!
        VOID
      )
    |
      generalClassOrInterfaceType
    )
    emptyDimsOpt
  ;
```

```
classOrInterfaceType
  : ( qualifiedClassName
    | qualifiedStandardClassName
    ) typeArguments?
  ;
```

```
generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
```

```

: qualifiedClassName typeArguments?
;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
: qualifiedStandardClassName typeArguments?
;

primitiveType
: BuiltInPrimitiveType
;

typeArguments
: LT nls typeArgument (COMMA nls typeArgument)* nls GT
;

typeArgument
: type
| annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
;

annotatedQualifiedClassName
: annotationsOpt qualifiedClassName
;

qualifiedClassNameList
: annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
;

formalParameters
: LPAREN formalParameterList? rparen
;

formalParameterList
: (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
;

thisFormalParameter
: type THIS
;

formalParameter
: variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
;

methodBody
: block
;

```

```

qualifiedName
  : qualifiedNameElement
  (DOT qualifiedNameElement)*
  ;

/**
 * Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
 * for them in package names for better integration with existing Java packages
 */
qualifiedNameElement
  : identifier
  | DEF
  | IN
  | AS
  | TRAIT
  ;

qualifiedNameElements
  : (qualifiedNameElement DOT)*
  ;

qualifiedClassName
  : qualifiedNameElements identifier
  ;

qualifiedStandardClassName
  : qualifiedNameElements className (DOT className)*
  ;

literal
  : IntegerLiteral                #integerLiteralAlt
  | FloatingPointLiteral          #floatingPointLiteralAlt
  | stringLiteral                 #stringLiteralAlt
  | BooleanLiteral               #booleanLiteralAlt
  | NullLiteral                   #nullLiteralAlt
  ;

// GSTRING

gstring
  : GStringBegin gstringValue (GStringPart gstringValue)* GStringEnd
  ;

gstringValue
  : gstringPath
  | closure

```

```

;

gstringPath
: identifier GStringPathPart*
;

// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
: lambdaParameters nls ARROW nls lambdaBody
;

// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
: standardLambdaParameters nls ARROW nls lambdaBody
;

lambdaParameters
options { baseContext = standardLambdaParameters; }
: formalParameters

// { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
// So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
// | variableDeclaratorId
;

standardLambdaParameters
: formalParameters
|
variableDeclaratorId
;

lambdaBody
: block
| statementExpression
;

// CLOSURE
closure
: LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
: closure
| lambdaExpression

```

```

;

blockStatementsOpt
: blockStatements?
;

blockStatements
: blockStatement (sep blockStatement)* sep?
;

// ANNOTATIONS

annotationsOpt
: (annotation (nls annotation)* nls)?
;

annotation
: AT annotationName (nls LPAREN elementValues? rparen)?
;

elementValues
: elementValuePairs
| elementValue
;

annotationName : qualifiedClassName ;

elementValuePairs
: elementValuePair (COMMA elementValuePair)*
;

elementValuePair
: elementValuePairName nls ASSIGN nls elementValue
;

elementValuePairName
: identifier
| keywords
;

// TODO verify the potential performance issue
because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
: elementValueArrayInitializer
| annotation
| expression
;

```

```

elementValueArrayInitializer
  : LBSTACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
  ;

// STATEMENTS / BLOCKS

block
  : LBRACE sep? blockStatementsOpt RBRACE
  ;

blockStatement
  : localVariableDeclaration
  | statement
  ;

localVariableDeclaration
  : { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
    variableDeclaration[0]
  ;

/**
 * t 0: local variable declaration; 1: field declaration
 */
variableDeclaration[int t]
  : modifiers nls
    ( type? variableDeclarators
    | typeNamePairs nls ASSIGN nls variableInitializer
    )
  |
    type variableDeclarators
  ;

typeNamePairs
  : LPAREN typeNamePair (COMMA typeNamePair)* rparen
  ;

typeNamePair
  : type? variableDeclaratorId
  ;

variableNames
  : LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
  ;

conditionalStatement
  : ifElseStatement
  | switchStatement
  ;

```



```

ifElseStatement
: IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
;

switchStatement
: SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
;

loopStatement
: FOR LPAREN forControl rparen nls statement #forStmtAlt
| WHILE expressionInPar nls statement #whileStmtAlt
| DO nls statement nls WHILE expressionInPar #doWhileStmtAlt
;

continueStatement
: CONTINUE
  identifier?
;

breakStatement
: BREAK
  identifier?
;

tryCatchStatement
: TRY resources? nls block
  (nls catchClause)*
  (nls finallyBlock)?
;

assertStatement
: ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
;

statement
: block #blockStmtAlt
| conditionalStatement #conditionalStmtAlt
| loopStatement #loopStmtAlt
| tryCatchStatement #tryCatchStmtAlt
| SYNCHRONIZED expressionInPar nls block #synchronizedStmtAlt
| RETURN expression? #returnStmtAlt
| THROW expression #throwStmtAlt
| breakStatement #breakStmtAlt
| continueStatement #continueStmtAlt
| identifier COLON nls statement #labeledStmtAlt
| assertStatement #assertStmtAlt

```

```

| localVariableDeclaration                #localVariableDeclarationStmtAlt
| statementExpression                    #expressionStmtAlt
| SEMI                                    #emptyStmtAlt
;

catchClause
: CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
;

catchType
: qualifiedClassName
(BITOR qualifiedClassName)*
;

finallyBlock
: FINALLY nls block
;

resources
: LPAREN nls resourceList sep? rparen
;

resourceList
: resource (sep resource)*
;

resource
: localVariableDeclaration
| expression
;

/** Matches cases then statements, both of which are mandatory.
 * To handle empty cases at the end, we add switchLabel* to statement.
 */
switchBlockStatementGroup
: switchLabel (nls switchLabel)* nls blockStatements
;

switchLabel
: CASE expression COLON
| DEFAULT COLON
;

forControl
: enhancedForControl
| classicalForControl
;

```

```

enhancedForControl
  : variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
  ;

classicalForControl
  : forInit? SEMI expression? SEMI forUpdate?
  ;

forInit
  : localVariableDeclaration
  | expressionList[false]
  ;

forUpdate
  : expressionList[false]
  ;

// EXPRESSIONS

castParExpression
  :
  LPAREN type rparen
  ;

parExpression
  : expressionInPar
  ;

expressionInPar
  : LPAREN enhancedStatementExpression rparen
  ;

expressionList[boolean canSpread]
  : expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
  ;

expressionListElement[boolean canSpread]
  : MUL? expression
  ;

enhancedStatementExpression
  : statementExpression
  | standardLambdaExpression
  ;

statementExpression

```

```

: commandExpression          #commandExprAlt
;

postfixExpression
: pathExpression op=(INC | DEC)?
;

expression
// must come before postfixExpression to resolve the ambiguities between casting and call on parentheses
expression, e.g. (int)(1 / 2)
: castParExpression castOperandExpression          #castExprAlt

// qualified names, array expressions, method invocation, post inc/dec
| postfixExpression
  #postfixExprAlt

// ~(BNOT)! (LNOT) (level 1)
| (BITNOT | NOT) nls expression                    #unaryNotExprAlt

// math power operator (**) (level 2)
| left=expression op=POWER nls right=expression    #powerExprAlt

// ++(prefix)--(prefix)/(unary)/(unary) (level 3)
| op=(INC | DEC | ADD | SUB) expression            #unaryAddExprAlt

// multiplication/division/modulo (level 4)
| left=expression nls op=(MUL | DIV | MOD) nls right=expression    #multiplicativeExprAlt

// binary addition/subtraction (level 5)
| left=expression op=(ADD | SUB) nls right=expression    #additiveExprAlt

// bit shift expressions (level 6)
| left=expression nls
  (
    ( dlOp=LT LT
      | tgOp=GT GT GT
      | dgOp=GT GT
    )
    | rangeOp=( RANGE_INCLUSIVE
      | RANGE_EXCLUSIVE
    )
  ) nls
  right=expression                                  #shiftExprAlt

// boolean relational expressions (level 7)
| left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type    #relationalExprAlt
| left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN) nls right=expression    #relationalExprAlt

```

```

// equality/inequality (==/!=) (level 8)
| left=expression nls
  op=( IDENTICAL
    | NOT_IDENTICAL
    | EQUAL
    | NOTEQUAL
    | SPACESHIP
  ) nls
right=expression #equalityExprAlt

// regex find and match (=~ and =~) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...

// 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
| left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression #regexExprAlt

// bitwise or non-short-circuiting and (&) (level 9)
| left=expression nls op=BITAND nls right=expression #andExprAlt

// exclusive or (^) (level 10)
| left=expression nls op=XOR nls right=expression #exclusiveOrExprAlt

// bitwise or non-short-circuiting or (|) (level 11)
| left=expression nls op=BITOR nls right=expression #inclusiveOrExprAlt

// logical and (&&) (level 12)
| left=expression nls op=AND nls right=expression #logicalAndExprAlt

// logical or (||) (level 13)
| left=expression nls op=OR nls right=expression #logicalOrExprAlt

// conditional test (level 14)
| <assoc=right>
con=expression nls
  ( QUESTION nls tb=expression nls COLON nls
  | ELVIS nls
  )
fb=expression #conditionalExprAlt

// assignment expression (level 15)
// "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
| <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression
#multipleAssignmentExprAlt
| <assoc=right> left=expression nls
  op=( ASSIGN
    | ADD_ASSIGN
    | SUB_ASSIGN
    | MUL_ASSIGN

```

```

        | DIV_ASSIGN
        | AND_ASSIGN
        | OR_ASSIGN
        | XOR_ASSIGN
        | RSHIFT_ASSIGN
        | URSHIFT_ASSIGN
        | LSHIFT_ASSIGN
        | MOD_ASSIGN
        | POWER_ASSIGN
        | ELVIS_ASSIGN
    ) nls
    enhancedStatementExpression                                #assignmentExprAlt
;

castOperandExpression
options { baseContext = expression; }
: castParExpression castOperandExpression                    #castExprAlt

| postfixExpression                                          #postfixExprAlt

// ~(BNOT)! (LNOT)
| (BITNOT | NOT) nls castOperandExpression                  #unaryNotExprAlt

// ++(prefix)--(prefix)/(unary)/(unary)
| op=(INC | DEC | ADD | SUB) castOperandExpression          #unaryAddExprAlt
;

commandExpression
: expression
(
    { !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) }?
    argumentList
|
    /* if pathExpression is a method call, no need to have any more arguments */
)

commandArgument*
;

commandArgument
: commandPrimary
// what follows is either a normal argument, parens,
// an appended block, an index operation, or nothing
// parens (a b already processed):
//   a b c() d e -> a(b).c().d(e)
//   a b c()() d e -> a(b).c().call().d(e)
// index (a b already processed):
//   a b c[x] d e -> a(b).c[x].d(e)

```

```

// a b c[x][y] d e -> a(b).c[x][y].d(e)
// block (a b already processed):
// a b c {x} d e -> a(b).c({x}).d(e)
//
// parens/block completes method call
// index makes method call to property get with index
//
( pathElement+
 | argumentList
 )?
;

/**
 * A "path expression" is a name or other primary, possibly qualified by various
 * forms of dot, and/or
 * followed by various kinds of brackets.
 * It can be used for value or assigned to, or else further qualified, indexed, or called.
 * It is called a "path" because it looks like a linear path through a data structure.
 * Examples: x.y, x?.y, x*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
 * (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
 * General expressions are built up from path expressions, using operators like '+' and '='.
 *
 * t 0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
 * namedPropertyArgs,
 * 6: non-static inner class creator
 */
pathExpression returns [int t]
: (
  primary
  |
  // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
  { _input.LT(2).getType() == DOT }?
  STATIC
) (pathElement { $t = $pathElement.t; })*
;

pathElement returns [int t]
: nls

(
  DOT nls NEW creator[1]
  { $t = 6; }
  |
  // AT: foo.@bar selects the field (or attribute), not property
  (
    ( DOT // The all-powerful dot.
    | SPREAD_DOT // Spread operator: x*.y === x?.collect{it.y}
    | SAFE_DOT // Optional-null operator: x?.y === (x==null)?null:x.y
  )
  )
)

```

```

    | SAFE_CHAIN_DOT // Optional-null chain operator: x?.y.z === x?.y?.z
    ) nls (AT | nonWildcardTypeArguments)?
    |
    METHOD_POINTER nls // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
    |
    METHOD_REFERENCE nls // Method reference: System.out::println
    )
    namePart
    { $t = 1; }

    // Can always append a block, as foo{bar}
    | closureOrLambdaExpression
    { $t = 3; }
    )

    | arguments

    { $t = 2; }

    // Element selection is always an option, too.
    // In Groovy, the stuff between brackets is a general argument list,
    // since the bracket operator is transformed into a method call.
    | indexPropertyArgs
    { $t = 4; }

    | namedPropertyArgs
    { $t = 5; }
    ;

/**
 * This is the grammar for what can follow a dot: x.a, x.@a, x.&a, x.'a', etc.
 */
namePart
:
( identifier

// foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
| stringLiteral

| dynamicMemberName

/* just a PROPOSAL, which has not been implemented yet!
// PROPOSAL, DECIDE: Is this inline form of the 'with' statement useful?
// Definition: a.{foo} === {with(a) {foo}}
// May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
| block
*/

```



```

    // let's allow common keywords as property names
    |
keywords
    )
;

/**
 * If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
 * and the member selection is done only at runtime. This forces a statically unchecked member access.
 */
dynamicMemberName
    : parExpression
    | gstring
;

/** An expression may be followed by [...].
 * Unlike Java, these brackets may contain a general argument list,
 * which is passed to the array element operator, which can make of it what it wants.
 * The brackets may also be empty, as in T[]. This is how Groovy names array types.
 */
indexPropertyArgs
    : QUESTION? LBRACK expressionList[true]? RBRACK
;

namedPropertyArgs
    : QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
;

primary
    :
    // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
    HashMap<String, Integer>::new
    // Though this is not a graceful solution, it is much faster than replacing `builtInType`
    with `type`
    identifier typeArguments?                                #identifierPrmrAlt
    | literal                                                #literalPrmrAlt
    | gstring                                                #gstringPrmrAlt
    | NEW nls creator[0]                                     #newPrmrAlt
    | THIS                                                    #thisPrmrAlt
    | SUPER                                                  #superPrmrAlt
    | parExpression                                         #parenPrmrAlt
    | closureOrLambdaExpression                             #closureOrLambdaExpressionPrmrAlt
    | list                                                    #listPrmrAlt
    | map                                                    #mapPrmrAlt
    | builtInType                                           #builtInTypePrmrAlt
;

```

```

namedPropertyArgPrimary
options { baseContext = primary; }
  : identifier                #identifierPrmrAlt
  | literal                  #literalPrmrAlt
  | gstring                 #gstringPrmrAlt
  | parExpression          #parenPrmrAlt
  ;

```

```

namedArgPrimary
options { baseContext = primary; }
  : identifier                #identifierPrmrAlt
  | literal                  #literalPrmrAlt
  |
  | gstring                 #gstringPrmrAlt
  ;

```

```

commandPrimary
options { baseContext = primary; }
  : identifier                #identifierPrmrAlt
  | literal                  #literalPrmrAlt
  | gstring                 #gstringPrmrAlt
  ;

```

```

list
  : LBRACK expressionList[true]? COMMA? RBRACK
  ;

```

```

map
  : LBRACK
    ( mapEntryList COMMA?
    | COLON
    )
    RBRACK
  ;

```

```

mapEntryList
  : mapEntry (COMMA mapEntry)*
  ;

```

```

namedPropertyArgList
options { baseContext = mapEntryList; }
  : namedPropertyArg (COMMA namedPropertyArg)*
  ;

```

```

mapEntry
  : mapEntryLabel COLON nls expression
  | MUL COLON nls expression
  ;

```

```

namedPropertyArg
options { baseContext = mapEntry; }
  : namedPropertyArgLabel
COLON nls expression
  | MUL COLON nls expression
  ;

namedArg
options { baseContext = mapEntry; }
  : namedArgLabel COLON nls expression
  | MUL COLON nls expression
  ;

mapEntryLabel
  : keywords
  | primary
  ;

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
  | namedPropertyArgPrimary
  ;

namedArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
  | namedArgPrimary
  ;

/**
 * t 0: general creation; 1: non-static inner class creation
 */
creator[int t]
  : createdName
    ( nls arguments anonymousInnerClassDeclaration[0]?
    | dim+ (nls arrayInitializer)?
    )
  ;

dim
  : annotationsOpt LBRACK expression? RBRACK
  ;

arrayInitializer
  : LBRACE nls (variableInitializers nls)? RBRACE
  ;

```

```

/**
 * t 0: anonymous inner class; 1: anonymous enum
 */
anonymousInnerClassDeclaration[int t]
  : classBody[0]
  ;

createdName
  : annotationsOpt

  ( primitiveType
    | qualifiedClassName typeArgumentsOrDiamond?
  )
  ;

nonWildcardTypeArguments
  : LT nls typeList nls GT
  ;

typeArgumentsOrDiamond
  : LT GT
  | typeArguments
  ;

arguments
  : LPAREN enhancedArgumentListInPar? COMMA? rparen
  ;

argumentList
options { baseContext = enhancedArgumentListInPar; }
  : firstArgumentListElement
  ( COMMA nls
    argumentListElement
  )*
  ;

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
  : firstEnhancedArgumentListElement
  ( COMMA nls
    enhancedArgumentListElement
  )*
  ;

enhancedArgumentListInPar
  : enhancedArgumentListElement
  ( COMMA nls

```

```

        enhancedArgumentListElement
    )*
;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| namedArg
;

argumentListElement
options { baseContext = enhancedArgumentListElement;
}
: expressionListElement[true]
| namedPropertyArg
;

firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
: expressionListElement[true]
| standardLambdaExpression
| namedArg
;

enhancedArgumentListElement
: expressionListElement[true]
| standardLambdaExpression
| namedPropertyArg
;

stringLiteral
: StringLiteral
;

className
: CapitalizedIdentifier
;

identifier
: Identifier
| CapitalizedIdentifier
| VAR
| IN
// | DEF
| TRAIT
| AS
;

```

builtInType  
: BuiltInPrimitiveType  
| VOID  
;

keywords  
: ABSTRACT  
| AS  
| ASSERT  
| BREAK  
| CASE  
| CATCH  
| CLASS  
| CONST  
| CONTINUE  
| DEF  
| DEFAULT  
| DO  
| ELSE  
| ENUM  
| EXTENDS  
| FINAL  
| FINALLY  
| FOR  
| GOTO  
| IF  
| IMPLEMENTS  
| IMPORT  
| IN  
| INSTANCEOF  
| INTERFACE  
| NATIVE  
| NEW  
| PACKAGE  
| RETURN  
| STATIC  
| STRICTFP  
| SUPER  
| SWITCH  
| SYNCHRONIZED  
| THIS  
| THROW  
| THROWS  
| TRANSIENT  
| TRAIT  
| THREADSAFE  
| TRY  
| VAR

```
| VOLATILE
| WHILE

| NullLiteral
| BooleanLiteral

| BuiltInPrimitiveType
| VOID

| PUBLIC
| PROTECTED
| PRIVATE
;
```

```
rparen
: RPAREN
;
```

```
nls
: NL*
;
```

```
sep : (NL | SEMI)+
;
```

Found in path(s):

```
* /opt/cola/permits/1298313811_1648779653.22/0/groovy-3-0-10-sources-jar/GroovyParser.g4
```

No license file was found, but licenses were detected in source scan.

```
# Licensed to the Apache Software Foundation (ASF) under one or more
# contributor license agreements. See the NOTICE file distributed with
# this work for additional information regarding copyright ownership.
# The ASF licenses this file to You under the Apache License, Version 2.0
# (the "License"); you may not use this file except in compliance with
# the License. You may obtain a copy of the License at
#
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.

# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
```

Found in path(s):

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation  
No license file was found, but licenses were detected in source scan.

/\*\* JSR-241 Groovy Recognizer.

\*

\* Run 'java Main [-showtree] directory-full-of-groovy-files'

\*

\* [The -showtree option pops up a Swing frame that shows

\* the AST constructed from the parser.]

\*

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\*

\* Version 1.00 December 9, 1997 -- initial release

\* Version 1.01 December 10, 1997

\* fixed bug in octal def (0..7 not 0..8)

\* Version 1.10 August 1998 (parrt)

\* added tree construction

\* fixed definition of WS,comments for mac,pc,unix newlines

\* added unary plus

\* Version 1.11 (Nov 20, 1998)

\* Added "shutup" option to turn off last ambig warning.

\* Fixed inner class def to allow named class defs as statements

\* synchronized requires compound not simple statement

\* add [] after builtInType DOT class in primaryExpression

\* "const" is reserved but not valid..removed from modifiers

\* Version 1.12 (Feb 2, 1999)

\* Changed LITERAL\_XXX to xxx in tree

grammar.

\* Updated java.g to use tokens {...} now for 2.6.0 (new feature).

\*

\* Version 1.13 (Apr 23, 1999)



- \* Didn't have (stat)? for else clause in tree parser.
- \* Didn't gen ASTs for interface extends. Updated tree parser too.
- \* Updated to 2.6.0.
- \* Version 1.14 (Jun 20, 1999)
  - \* Allowed final/abstract on local classes.
  - \* Removed local interfaces from methods
  - \* Put instanceof precedence where it belongs...in relationalExpr
    - \* It also had expr not type as arg; fixed it.
  - \* Missing ! on SEMI in classBlock
  - \* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
  - \* fixed: didn't like Object[].class in parser or tree parser
- \* Version 1.15 (Jun 26, 1999)
  - \* Screwed up rule with instanceof in it. :( Fixed.
  - \* Tree parser didn't like (expr).something; fixed.
  - \* Allowed multiple inheritance
    - in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
  - \* Extending an interface built a wacky tree: had extra EXTENDS.
  - \* Tree grammar didn't allow multiple superinterfaces.
  - \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
  - \* ESC lexer rule allowed 399 max not 377 max.
  - \* java.tree.g didn't handle the expression of synchronized statements.
- \* Version 1.18 (August 12, 2001)
  - \* Terence updated to Java 2 Version 1.3 by
    - observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
    - o primary didn't include boolean.class kind of thing
    - o constructor calls parsed explicitly now:
      - see explicitConstructorInvocation
    - o add strictfp modifier
    - o missing objBlock after new expression in tree grammar
    - o
      - merged local class definition alternatives, moved after declaration
        - o fixed problem with ClassName.super.field
        - o reordered some alternatives to make things more efficient
        - o long and double constants were not differentiated from int/float
        - o whitespace rule was inefficient: matched only one char
        - o add an examples directory with some nasty 1.3 cases
        - o made Main.java use buffered IO and a Reader for Unicode support
        - o supports UNICODE?
      - Using Unicode charVocabulary makes code file big, but only
        - in the bitsets at the end. I need to make ANTLR generate
          - unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
  - \* Terence added in nice fixes by John Pybus concerning floating constants and problems with super() calls. John did a nice

- \* reorg of the primary/postfix expression  
stuff to read better
- \* and makes f.g.super() parse properly (it was METHOD\_CALL not  
\* a SUPER\_CTOR\_CALL). Also:
- \*
  - o "finally" clause was a root...made it a child of "try"
  - o Added stuff for asserts too for Java 1.4, but \*commented out\*  
as it is not backward compatible.
- \*
  - Version 1.20 (October 27, 2002)
  - \*
    - Terence ended up reorging John Pybus' stuff to  
remove some nondeterminisms and some syntactic predicates.
    - Note that the grammar is stricter now; e.g., this(...) must  
be the first statement.
    - \*
      - Trinary ?: operator wasn't working as array name:  
(isBig ? bigDigits : digits)[i];
      - \*
        - Checked parser/tree parser on source for  
Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,  
and the 110k-line jGuru server source.
  - \*
    - Version 1.21 (October 17, 2003)
    - \* Fixed lots of problems including:
      - \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
      - \* He found a problem/fix with floating point that start with 0
      - \* Ray also fixed problem that (int.class) was not recognized.
      - \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
      - \* TJP fixed CHAR\_LITERAL analogously.
  - \*
    - Version 1.21.2 (March, 2003)
    - \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
    - \* Notes:
      - o We only allow the "extends" keyword and not the "implements"  
keyword, since that's what JSR14 seems to imply.
      - o Thanks to Monty Zukowski for his help on the antlr-interest  
mail list.
      - o Thanks to Alan Eliassen for testing the grammar over his  
Fink source base
  - \*
    - Version 1.22 (July, 2004)
    - \* Changes by Michael Studman to support Java 1.5 language extensions
    - \* Notes:
      - o Added support for annotations types
      - o Finished off Matt Quail's generics  
enhancements to support bound type arguments
      - o Added support for new for statement syntax

- \* o Added support for static import syntax
- \* o Added support for enum types
- \* o Tested against JDK 1.5 source base and source base of jdigraph project
- \* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
- \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
- \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
- \* o Enabled type parameters on constructors, annotations on enum constants and package definitions
- \* o Fixed problems when parsing `if ((char.class.equals(c))) {}` - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)
- \* Slight refactoring of Java 1.5 language support
- \* o Refactored `for`/`foreach` productions so that original literal `"for"` literal is still used but the `for` sub-clauses vary by token type
- \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces and other refactorings
- \* o Fixed typeParameters omission in `identPrimary` and `newStatement`
- \* o Replaced GT reconciliation code with simple semantic predicate
- \* o Adapted `enum/assert` keyword checking support from Michael Stahl's `java15` grammar
- \* o Refactored `typeDefinition` production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
- \* o Added `typeArguments` to `explicitConstructorInvocation`, e.g. `new <String>MyParameterised()`
- \* o Added `typeArguments` to `postfixExpression` productions for anonymous inner class super constructor invocation, e.g. `new Outer().<String>super()`
- \* o Fixed bug in array declarations identified by Geoff Roy
- \*
- \* Version 1.22.4.g.1
- \* o I have taken `java.g` for Java 1.5 from Michael Studman (1.22.4) and have applied the `groovy.diff` from `java.g` (1.22) by John Rose back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
- \*
- \* Version 1.22.4.g.2
- \* o `mkempf`, `rkleeb`, Dec 2007
- \* o fixed various rules so that they call the correct Create Method to make sure that the line information are correct
- \*
- \* Based on an original grammar released in the PUBLIC DOMAIN

\*/

Found in path(s):

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java

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Found in path(s):

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/groovy.g  
\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/java/java.g

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# Format: one extension on each line without the leading "\*."

# Listed below are default groovy source file extensions.

# NOTE: This implementation  
# of supporting multiple file extensions is experimental and  
# the exact implementation details may vary when modularization gets introduced in  
# groovy 2.0. However, in terms of the behavior, this support will remain intact.  
groovy

Found in path(s):

\* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions

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Found in path(s):

- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/package.html
- \*
- /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/treewalker/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/overviewj.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/util/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/xml/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/javac/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/syntax/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/lang/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/stmt/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/io/package.html
- \*
- /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/ast/expr/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/antlr/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/grape/defaultGrapeConfig.xml
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/wrappers/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/io/package.html

- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/metaclass/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/inspect/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/typehandling/package.html
- \*
- /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/time/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/runtime/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/reflection/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/overview.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/messages/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/tools/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/asm/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/groovy/security/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/vmplugin/package.html
- \*
- /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/vmplugin/v5/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/control/package.html
- \* /opt/cola/permits/1298313811\_1648779653.22/0/groovy-3-0-10-sources-jar/org/codehaus/groovy/classgen/package.html

## 1.152 perfmark-api 0.23.0

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\*

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## 1.153 metrics-jvm 4.1.25

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## 1.154 antlr 4.9.2

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\*/

/\*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

\*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<text> [error <id>]"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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 \*/

```
phpTypeInitMap ::= [
  "int": "0",
  "long": "0",
  "float": "0.0",
  "double": "0.0",
  "boolean": "false",
  default: "null"
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
```

```

<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeListener;

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @see <file.parserName> }.
 */
interface <file.grammarName>Listener extends ParseTreeListener {
    <file.listenerNames: {lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Enter a parse tree produced by the `<lname>`
 * labeled alternative in { @see <file.parserName>::<file.listenerLabelRuleNames.(lname)>() }.
<else>
 * Enter a parse tree produced by { @see <file.parserName>::<lname>() }.
<endif>
 * @param $context The parse tree.
 */
public function enter<lname; format="cap">(Context\<lname; format="cap">Context $context) : void;
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Exit a parse tree produced by the `<lname>` labeled alternative
 * in { @see <file.parserName>::<file.listenerLabelRuleNames.(lname)>() }.
<else>
 * Exit a parse
 * tree produced by { @see <file.parserName>::<lname>() }.
<endif>
 * @param $context The parse tree.
 */
public function exit<lname; format="cap">(Context\<lname; format="cap">Context $context) : void;
separator="\n"
}
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

```

```

use Antlr\Antlr4\Runtime\ParserRuleContext;
use Antlr\Antlr4\Runtime\Tree\ErrorNode;
use Antlr\Antlr4\Runtime\Tree\TerminalNode;

/**
 * This class provides an empty implementation of { @see <file.grammarName>Listener },

```

```

* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
    <file.listenerNames> {lname |
/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function enter<lname; format="cap">(Context\|<lname; format="cap">Context
    $context) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function exit<lname; format="cap">(Context\|<lname; format="cap">Context $context) : void {}};
separator="\n">

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function enterEveryRule(ParserRuleContext $context) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function exitEveryRule(ParserRuleContext $context) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */
public function visitTerminal(TerminalNode $node) : void {}

/**
 * {@inheritDoc}
 *
 * The default implementation does nothing.
 */

```

```

public function visitErrorNode(ErrorNode $node) : void { }
}
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

<header>
use Antlr\Antlr4\Runtime\Tree\ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced by { @see <file.parserName> }.
 */
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
    <file.visitorNames:{ Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
 * Visit a parse tree produced by the `<Iname>` labeled alternative
 * in { @see <file.parserName>::<file.visitorLabelRuleNames.(Iname)>() }.
<else>
 * Visit a parse tree produced by { @see <file.parserName>::<Iname>() }.
<endif>
 *
 * @param Context\<Iname; format="cap">Context $context The parse tree.
 *
 * @return mixed The visitor result.
 */
public function visit<Iname; format="cap">(Context\<Iname; format="cap">Context $context);};
separator="\n\n"
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\Antlr4\Runtime\Tree\AbstractParseTreeVisitor;

/**
 * This class provides
 * an empty implementation of { @see <file.grammarName>Visitor },
 * which can be extended to create a visitor which only needs to handle a subset

```

```

* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
  <file.visitorNames:{ lname |
  /**
  * { @inheritdoc\}
  *
  * The default implementation returns the result of calling
  * { @see self::visitChildren()\} on `context` .
  */
  public function visit<lname; format="cap">(Context\<lname; format="cap">Context $context)
  {
    return $this->visitChildren($context);
  \}}; separator="\n\n">
  }
  >>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
  use
  Antlr\Antlr4\Runtime\Atn\ATN;
  use Antlr\Antlr4\Runtime\Atn\ATNDeserializer;
  use Antlr\Antlr4\Runtime\Atn\ParserATNSimulator;
  use Antlr\Antlr4\Runtime\Dfa\DFA;
  use Antlr\Antlr4\Runtime>Error\Exceptions\FailedPredicateException;
  use Antlr\Antlr4\Runtime>Error\Exceptions\NoViableAltException;
  use Antlr\Antlr4\Runtime\PredictionContexts\PredictionContextCache;
  use Antlr\Antlr4\Runtime>Error\Exceptions\RecognitionException;
  use Antlr\Antlr4\Runtime\RuleContext;
  use Antlr\Antlr4\Runtime\Token;
  use Antlr\Antlr4\Runtime\TokenStream;
  use Antlr\Antlr4\Runtime\Vocabulary;
  use Antlr\Antlr4\Runtime\VocabularyImpl;
  use Antlr\Antlr4\Runtime\RuntimeMetaData;

```

```

use Antlr4\Runtime\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

final class <parser.name> extends <superClass; null="Parser">
{
<if(parser.tokens)>
public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}>; separator="
", wrap, anchor;
<endif>

<if(parser.rules)>
public const <parser.rules:{r | RULE_<r.name> = <r.index>}>; separator="
", wrap, anchor;
<endif>

/**
 * @var array<string>
 */
public const RULE_NAMES = [
<parser.ruleNames:{r | '<r>'}>; separator="
", wrap, anchor>
];

<vocabulary(parser.literalNames, parser.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>

<parser:(ctor)>

private static function initialize() : void
{
if (self::$atn !== null) {
return;
}

RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

$atn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

$decisionToDFA = [];
for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {
$decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
}
}

```

```

}

self::$atn = $atn;
self::$decisionToDFA
= $decisionToDFA;
self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName() : string
{
    return "<parser.grammarFileName>";
}

public function getRuleNames() : array
{
    return self::RULE_NAMES;
}

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

public function getATN() : ATN
{
    return self::$atn;
}

public function getVocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
}
<if(funcs)>

    <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
    switch ($ruleIndex) {
        <parser.sempredFuncs.values:{f}
        case <f.ruleIndex>:
            return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

    default:

```

```

    return
true;
}
}

<sempredFuncs.values; separator="\n\n">
<endif>
}
}

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
    use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
    use Antlr\\Antlr4\\Runtime\\Token;
    use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
    use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
    use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
    use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
    <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
    <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
    <namedActions.contexts>

    <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

<func.altLabelCtxs:{1 | <func.altLabelCtxs.(1)>; separator="\n\n"><endif> }; separator="\n\n">
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
/**
 * @var array<string|null>
 */
private const LITERAL_NAMES = [
    <literalNames:{t
| <t>; null="null", separator=", ", wrap, anchor>
];

/**
 * @var array<string>
 */
private const SYMBOLIC_NAMES = [
    <symbolicNames:{t | <t>; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex) : void

```



```

{
  switch ($ruleIndex) {
  <recog.actionFuncs.values: {f|
  case <f.ruleIndex>:
    $this->action<f.name; format="cap">($localContext, $actionIndex);
    break; }; separator="\n\n">
  }
}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex) : bool
{
  switch ($ruleIndex) {
  <recog.sempredFuncs.values: {f|
  case <f.ruleIndex>:
    return $this->sempred<f.name; format="cap">($localContext, $predicateIndex); }; separator="\n\n">
  }

  return true;
}
<sempredFuncs.values; separator="\n\n">
<endif>
>>

parser_ctor(p) ::= <<
public
function __construct(TokenStream $input)
{
  parent::__construct($input);

  self::initialize();

  $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
 * This generates a private method since the actionIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex) : void
{
  switch ($actionIndex) {
  <actions: {index|

```

```

case <index>:
<actions.(index)>

break;}; separator="\n\n">
}
}
>>

/**
 * This generates a private method since the predicateIndex is generated, making
 * an overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(Context\<r.ctxType> $localContext, int $predicateIndex) : bool
{
switch ($predicateIndex) {
<actions: {index|
case <index>:
return <actions.(index)>;};
separator="\n\n">
}

return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers: {f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\<currentRule.ctxType>
{
$localContext = new Context\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args: {a | ,
$a.name}>);

$this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">

try {
<code>
<postamble; separator="\n">
<namedActions.after>
} <if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
$localContext->exception = $exception;
$this->errorHandler->reportError($this, $exception);

```

```

        $this->errorHandler->recover($this, $exception);

    }<endif> finally {
        <finallyAction>
        $this->exitRule();
    }

    return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble) ::= <<
/**
 * @throws RecognitionException
 */
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">) : Context\<currentRule.ctxType>
{
    return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
 * @throws RecognitionException
 */
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>) :
Context\<currentRule.ctxType>
{
    $parentContext = $this->ctx;
    $parentState = $this->getState();
    $localContext = new Context\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
    $previousContext = $localContext;
    $startState = <currentRule.startState>;
    $this->enterRecursionRule($localContext, <currentRule.startState>,
self::RULE_<currentRule.name>, $precedence);
    <namedActions.init>
    <locals; separator="\n">

    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    } catch (RecognitionException $exception) {
        $localContext->exception = $exception;
        $this->errorHandler->reportError($this, $exception);
        $this->errorHandler->recover($this, $exception);
    } finally {

```

```

    <finallyAction>
    $this->unrollRecursionContexts($parentContext);
    }

    return $localContext;
    }
    >>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops;
separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
    <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    break;}; separator="\n\n">

default:
    <error>
    }
    >>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
    <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
    <alt>
    break;}; separator="\n\n">

default:

```

```

break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
  <alts; separator="\n">
}
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  $this->setState(<choice.loopBackStateNumber>);
  $this->errorHandler->sync($this);
  <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
  <alts; separator="\n">
  $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
  $this->errorHandler->sync($this);
  <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

```

```

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
  <alts:{ alt |
case <i>:
  <alt>
break;}; separator="\n\n">
}
>>

```

```

OptionalBlock(choice,
alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

```

```

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
  <alts:{ alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
  break;}; separator="\n\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

```

```

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

```

```

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
  if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
}

```

```

$this->setState(<choice.loopBackStateNumber>);
$this->errorHandler->sync($this);

```

```

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block
decision !>
$this->errorHandler->sync($this);

```

```

$alt = 1<if(!choice.ast.greedy)>+1<endif>;

```

```

do {
  switch ($salt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
  break;}; separator="\n\n">
  default:
    <error>
  }

  $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
  $this->errorHandler->sync($this);

  $salt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
  } while ($salt !== <choice.exitAlt> && $salt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
>>

// produces smaller bytecode
only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<|< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<|< <offsetShiftConst(ttype, bits.shift)>)}); separator=" | ">)) !== 0
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>

```

```

%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | $<s.varName> === self::<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{ t | case self::<t>}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{ l | <labelref(l)> =
} ><endif>$this-><if(r.ast.options.p)>recursive<r.name>;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif>
<argExprsChunks>);
>>

MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{ l | <labelref(l)> = } ><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{ l | <labelref(l)> = } >$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{ l | <labelref(l)> = } ><endif>$this->errorHandler->recoverInline($this);
} else {
    if ($this->input->LA(1) === Token::EOF) {
        $this->matchedEOF = true;
    }

    $this->errorHandler->reportMatch($this);
    $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);

```



```

<if(w.labels)><w.labels:{1
| <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if (!(<chunks>)) {
    throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "$this->skip();"
LexerMoreCommand() ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar) ::= "$this->type = <arg>);"
LexerChannelCommand(arg, grammar) ::= "$this->channel = <arg>);"
LexerModeCommand(arg, grammar) ::= "$this->mode = <arg>);"
LexerPushModeCommand(arg, grammar) ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t)
    ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValRef(a) ::= "$localContext-><a.name>"
QRetValRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t) ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>);"

```

```

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)-><t.label>
!== null ? <ctx(t)-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)-><t.label> !== null ? <ctx(t)-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)-><t.label> !== null ? (int) <ctx(t)-><t.label>->getText() : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)-><r.label> !== null ? (<ctx(r)-><r.label>->start) : null)"
RulePropertyRef_stop(r) ::= "<ctx(r)-><r.label> !== null ? (<ctx(r)-><r.label>->stop) : null)"
RulePropertyRef_text(r) ::= "<ctx(r)-><r.label> !== null ? $this->input->getTextByTokens(<ctx(r)-><r.label>->start, <ctx(r)-><r.label>->stop) : null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)-><r.label>"
RulePropertyRef_parser(r) ::= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r) ::= "$localContext->stop"
ThisRulePropertyRef_text(r) ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "$localContext"
ThisRulePropertyRef_parser(r) ::=
"$this"

NonLocalAttrRef(s) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)-><a.listName>[] = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
<struct.tokenListDecls : { d | /**
* @var array<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

```

```

<endif>
<struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls
|| struct.tokenDecls)>

<endif>
<struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls)>

<endif>
<struct.ruleContextListDecls : {d | /**
* @var array<<d.ctxName>>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
<struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>() : ?TerminalNode
{
    return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t) ::= <<
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
/**
 * @return
 * array<<TerminalNode>|TerminalNode|null
 */
public function <t.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTokens(<parser.name>::<t.name>);
    }

    return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r) ::= <<
public function <r.name>() : ?<r.ctxName>
{
    return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r) ::= <<
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
/**
 * @return array<<<r.ctxName>>|<r.ctxName>|null
 */
public function <r.name>(int $index = null)
{
    if ($index === null) {
        return $this->getTypedRuleContexts(<r.ctxName>::class);
    }

    return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**
 * The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"

```

```

ImplicitSetLabel(id)
  ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \${this->input->LT(1)};"
CaptureNextTokenType(d) ::= "$<d.varName> = \${this->input->LA(1)};"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
{
parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>

  <struct.ctorAttrs:{a | \${this-><a.name> = \${<a.name>} ?? \${this-><a.name>};}; separator="\n">
<endif>
}

public function getRuleIndex() : int
{
return <parser.name>::RULE_<struct.derivedFromName>;
}
<if(getters)>

  <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need
copy unless we have subclasses !>
public function copyFrom(ParserRuleContext $context) : void
{
parent::copyFrom($context);

  <struct.attrs:{a | \${this-><a.name> = \${<context-><a.name>};}; separator="\n">
}
<endif>
<if(dispatchMethods)>

  <dispatchMethods; separator="\n\n">
<endif>
<if(extensionMembers)>

  <extensionMembers; separator="\n\n">
<endif>
}

```

>>

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
public function __construct(<struct.parentRule; format="cap">Context $context)
{
    parent::__construct($context);

    $this->copyFrom($context);
}
<if(getters)>

    <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>

    <dispatchMethods; separator="\n\n">
<endif>
}
>>
```

```
ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener) : void
{
    if ($listener instanceof <parser.grammarName>Listener)
    {
        $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
    }
}
>>
```

```
VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor)
{
    if ($visitor instanceof <parser.grammarName>Visitor) {
        return $visitor->visit<struct.derivedFromName; format="cap">($this);
    }

    return $visitor->visitChildren($this);
}
>>
```

```
/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */
```

```

ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name) ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()      ::= "\$this->ctx->stop = \$this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext
= new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
    $this->triggerExitRuleEvent();
}
}

```

```

$previousContext
= $localContext;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
use Antlr\\Antlr4\\Runtime\\Lexer;
use Antlr\\Antlr4\\Runtime\\CharStream;
use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
use Antlr\\Antlr4\\Runtime\\RuleContext;
use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
use Antlr\\Antlr4\\Runtime\\Vocabulary;
use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

```

```

final class <lexer.name> extends <superClass; null="Lexer">
{
<if(lexer.tokens)>
public
const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>

<if(lexer.channels)>
public const <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>

<if(rest(lexer.modes))>
public const <rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>

/**
 * @var array<string>
 */
public const CHANNEL_NAMES = [
'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c | '<c>'}; separator=", ",
wrap, anchor><endif>
];

```



```

/**
 * @var array<string>
 */
public const MODE_NAMES = [
    <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
];

/**
 * @var array<string>
 */
public const RULE_NAMES = [
    <lexer.ruleNames:{r| '<r>'}; separator=", ", wrap, anchor>
];

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

    <namedActions.members>
<endif>

public
function __construct(CharStream $input)
{
    parent::__construct($input);

    self::initialize();

    $this->interp = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}

private static function initialize() : void
{
    if (self::$atn !== null) {
        return;
    }

    RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

    $atn = (new ATNDeserializer()->deserialize(self::SERIALIZED_ATN);

    $decisionToDFA = [];
    for ($i = 0, $count = $atn->getNumberOfDecisions(); $i < $count; $i++) {

```

```

    $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
}

self::$atn = $atn;
self::$decisionToDFA = $decisionToDFA;
self::$sharedContextCache = new PredictionContextCache();
}

public static function vocabulary() : Vocabulary
{
    static $vocabulary;

    return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES,
self::SYMBOLIC_NAMES);
}

public function getGrammarFileName() : string
{
    return '<lexer.grammarFileName>';
}

public function getRuleNames() : array
{
    return self::RULE_NAMES;
}

public function getSerializedATN() : string
{
    return self::SERIALIZED_ATN;
}

/**
 * @return array<string>
 */
public function getChannelNames() : array
{
    return self::CHANNEL_NAMES;
}

/**
 * @return array<string>
 */
public function getModeNames() : array
{
    return self::MODE_NAMES;
}

public function getATN() : ATN

```

```

    {
    return self::$atn;
    }

    public function getVocabulary() : Vocabulary
    {
    return self::vocabulary();
    }
    <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
    }
    }
    >>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
/**
 * @var string
 */
private const SERIALIZED_ATN =
    <model.segments:{segment| "<segment; wrap={ " .<n>" }>"; separator=" .\n">;
<else>
/**
 * @var string
 */
private const SERIALIZED_ATN
=
    "<model.serialized; wrap={ " .<n> " }>";
<endif>
>>

/**
 * Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is `null`.
 */
initValue(typeName) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"

Found in path(s):
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
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```

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\*/

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
separator="\n">
}
>>
```

```
decision-rank(states) ::= <<
```

```

{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
    <! rest(transition) tests for decision states: these nodes have a non-empty
set of transitions after the first one. !>
    <if(rest(transitions))>
        {
            <! Label on the left side of the record node. !>
            <label>
            |
            <! Named ports in order on right side of record node, no display text. !>
            {<transitions:{t|\<p>i0>>}; separator="|">}}
        <else>
            <label>
        <endif>
        "
    <if(rest(transitions))>
        , shape=record, fixedsize=false
    <else>
        , shape=circle, fixedsize=true, width=.55
    <endif>
    , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label>"<if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

```

Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg

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// File : A3Lexer.g

// Author : Jim Idle (jimi@temporal-wave.com)

// Copyright : Free BSD - See @header clause below

// Version : First implemented as part of ANTLR 3.2 this is the self

// hosting ANTLR 3 Lexer.

//

// Description

// -----

// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other

// grammars are

derived from this grammar via source code control integration (perforce)

// or by the gdiff tool.

```

//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{ }
//        sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 *     A3Parser.g
 *     A3Verify.g (derived from A3Walker.g)
 * assign.types.g
 * define.g
 * buildnfa.g
 * antlr.print.g (optional)
 * codegen.g
 *
 * Terence Parr
 * University of San Francisco
 * 2005
 * Jim Idle (this v3 grammar)
 * Temporal Wave LLC
 * 2009
 */
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
// does
// care about order of structures. Hence we are constrained by the v2 parser

```

```

// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPREP; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright
// in this source and also the generated source
//
@lexer::header {
/*
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\*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}
```

```
@members {
```

```
public static final int COMMENTS_CHANNEL = 2;
```

```
public CommonTokenStream tokens; // track stream we push to; need for context info
public boolean isLexerRule = false;
```

```
public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
/** scan backwards from current point in this.tokens list
```

```
 * looking for the start of the rule or
subrule.
```

```
 * Return token or null if for some reason we can't find the start.
```

```
*/
```

```
public Token getRuleOrSubruleStartToken() {
```

```
    if ( tokens==null ) return null;
```

```
    int i = tokens.index();
```

```
        int n = tokens.size();
```

```
        if ( i>=n ) i = n-1; // seems index == n as we lex
```

```
    while ( i>=0 && i<n ) {
```

```
        int ttype = tokens.get(i).getType();
```

```
        if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
```

```
            return tokens.get(i);
```

```
        }
```

```
        i--;
```

```
    }
```

```
    return null;
```

```
}
```

```
}
```

```

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init
{

// Record the start line and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
// or something silly.
//
'/' // Comment introducer

(
// Single line comment, possibly with embedded src/line directives
// in a similar style to the C pre-processor, allowing generated
// code to refer the programmer back to the original source code
// in case of error.
//
'/'
(
(' $ANTLR')=> ' $ANTLR' SRC
| ~(NLCHARS)*
)

| // Multi-line comment, which may be a documentation comment
// if it starts /** (note that we protect against accidentally
// recognizing a comment /**/ as a documentation comment
//
'/**' (
{ input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
| { true }?=> // Required to cover all alts with predicates

```

```

)

// Should we support embedded multiline comments here?
//
(
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .
)*
(
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error
message relative
    // to the start of the unterminated multi-line comment
    //
    /*'

|// Unterminated comment!
//
{
    // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
}
)

|// There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
    // TODO: Insert error message relative to comment start
    //
}
)
{
    // We do not wish to pass the comments in to the parser. If you are
    // writing a formatter then you will want to preserve the comments off
    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
}
;

```

```

ARG_OR_CHARSET
options {k=1;}
:
{isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
$type=ARG_ACTION;
// Set the token text to our gathered string minus outer [ ]
String t = $text;
t = t.substring(1,t.length()-1);
setText(t);
}
;

```

fragment

LEXER\_CHAR\_SET

```

: '['
( '\\ ~('\r'\n')
| ~('\r'\n'\\'']')
)*
']'
;

```

// -----

// Argument specs

//

// Certain argument lists, such as those specifying call parameters

// to a rule invocation, or input parameters to a rule specification

// are contained within square brackets. In the lexer we consume them

// all at once and sort them out later in the grammar analysis.

//

fragment

ARG\_ACTION

```

: '['
(
ARG_ACTION

| ("")=>ACTION_STRING_LITERAL

| ("\")=>ACTION_CHAR_LITERAL

| ~('[']')
)*
']'
;

```

```

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
//
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' { $type = SEMPRED; }
( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we
// must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//

```

```

int startLine = getLine();
int offset  = getCharPositionInLine();
}

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be
foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION

| // What appears to be a literal
//
ACTION_CHAR_LITERAL

| // We have assumed that the target language has C/Java
// type comments.
//
COMMENT

| // What appears to be a literal
//
ACTION_STRING_LITERAL

| // What appears to be an escape sequence
//
ACTION_ESC

| // Some other single character that is not
// handled above
//
~(\\|'|\"|/|'{|'})

)*

```

```

(
    // Correctly balanced closing brace
    //
    '}'

|// Looks like have an imbalanced {} block, report
  // with respect to the opening brace.
  //
  {
    // TODO: Report imbalanced {}

    System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or is
missing a }");
  }
)
;

```

```

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//

```

```

OPTIONS    : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS   : 'channels' WSNLCHARS* '{' ;

```

```

IMPORT     : 'import'          ;
FRAGMENT   : 'fragment'       ;
LEXER      : 'lexer'          ;
PARSER     : 'parser'         ;
GRAMMAR    : 'grammar'        ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED  : 'protected'      ;

```

```

;
PUBLIC     : 'public'         ;
PRIVATE    : 'private'        ;
RETURNS    : 'returns'       ;
LOCALS     : 'locals'        ;
THROWS     : 'throws'         ;
CATCH      : 'catch'         ;
FINALLY    : 'finally'       ;
MODE       : 'mode'          ;

```

```

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON      ':'
    {
        // scan backwards, looking for a RULE_REF or TOKEN_REF.
        // which would indicate the start of a rule definition.
        // If we see a LPAREN, then it's the start of the subrule.
        // this.tokens is the token string we are pushing into, so
        // just loop backwards looking for a rule definition. Then
        // we set isLexerRule.
        Token t = getRuleOrSubruleStartToken();
        if ( t!=null ) {
            if ( t.getType()==RULE_REF
) isLexerRule = false;
            else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
            // else must be subrule; don't alter context
        }
    }
;

COLONCOLON  '::'      ;
COMMA      ','      ;
SEMI       ';'      ;
LPAREN     '('      ;
RPAREN     ')'      ;
RARROW     '->'     ;
LT         '<'      ;
GT         '>'      ;
ASSIGN     '='      ;
QUESTION   '?'      ;
SYNPRED    '=>'    ;
    {
        Token t = new CommonToken(input, state.type, state.channel,
            state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.V3_SYNPRED, t);
        $channel=HIDDEN;
    }
;

STAR       '*'      ;
PLUS      '+'      ;
PLUS_ASSIGN '+='    ;
OR        '|'      ;

```



```

DOLLAR   : '$'           ;
DOT       : '.'           ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE     : '..'          ;
AT        : '@'           ;
POUND     : '#'           ;
NOT       : '~'           ;
RBRACE    : '}'           ;

```

```
/** Allow unicode rule/token names */
```

```

ID : a=NameStartChar NameChar*
  {
    if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
    else $type = RULE_REF;
  }
;

```

```
fragment
```

```

NameChar : NameStartChar
  | '0'..'9'
  | '_'
  | '\u00B7'
  | '\u0300'..\u036F'
  | '\u203F'..\u2040'
;

```

```
fragment
```

```

NameStartChar
  : 'A'..'Z' | 'a'..'z'
  | '\u00C0'..\u00D6'
  | '\u00D8'..\u00F6'
  | '\u00F8'..\u02FF'
  | '\u0370'..\u037D'
  | '\u037F'..\u1FFF'
  | '\u200C'..\u200D'
  | '\u2070'..\u218F'
  | '\u2C00'..\u2FEF'
  | '\u3001'..\uD7FF'
  | '\uF900'..\uFDCF'
  | '\uFDF0'..\uFEFE'
  | '\uFF00'..\uFFFD'
  ; // ignores | [\u10000-\uEFFFD] ;

```

```
// -----
```

```
// Literals embedded in actions
```

```
//
```

```
// Note that we have made the assumption that the language used within
```

```
// actions uses the fairly standard " and ' delimiters for literals and
```

```
// that within these literals, characters are escaped using the \ character.
```

```

// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within
// these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~"")* "\""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~"")* "\""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: "\\" .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT :
('0'..'9')+
;

// -----
// Source spec

```

```

//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
        // TODO: Add target specific code to change the source file name and current line number
        //
    }
;

```

```

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
: "\"" ( ( ESC_SEQ | ~("\|\"|\r|\n') ) ) *
  ( "\""
  | // Unterminated string literal
    {
        Token t = new CommonToken(input, state.type, state.channel,
state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
    }
  )
;

```

```

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

```

```

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: "\\"
(

```

```

    // The standard escaped character set such as tab, newline, etc...
    'b'|'t'|'n'|'f'|'r'|'\'|'\"'

|// A Java style Unicode escape sequence
    UNICODE_ESC

|// A Swift/Hack style Unicode escape sequence
    UNICODE_EXTENDED_ESC

|// An illegal escape sequence
    ~(b'|'t'|'n'|'f'|'r'|'\'|'\"|'\\'|'u') // \x for any invalid x (make sure to match char here)
    {
        Token t = new CommonToken(input,
state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
        t.setText(t.getText());
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
    }
)
;

fragment
UNICODE_ESC
@init {

    // Flag to tell us whether we have a valid number of
    // hex digits in the escape sequence
    //
    int hCount = 0;
}
: 'u' // Leadin for unicode escape sequence

    // We now require 4 hex digits. Note though
    // that we accept any number of characters
    // and issue an error if we do not get 4. We cannot
    // use an infinite count such as + because this
    // might consume too many, so we lay out the lexical
    // options and issue an error at the invalid paths.
    //
    (
        (
            HEX_DIGIT { hCount++; }

        (
            HEX_DIGIT { hCount++; }
        (

```

```

        HEX_DIGIT { hCount++; }
    (
        // Four valid hex digits, we are good
        //
        HEX_DIGIT { hCount++; }

        |// Three valid digits
    )

    |// Two valid digits
)

    |// One valid digit
)
)
|// No valid hex digits at all
)

// Now check the digit count and issue an error if we need to
//
{
    if (hCount < 4) {
        Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
        String lastChar = input.substring(badRange.b, badRange.b);
        if ( lastChar.codePointAt(0)=="\" ) {
            badRange.b--;
        }
        String bad = input.substring(badRange.a, badRange.b);
        Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE,
t, bad);
    }
}
;

```

fragment

UNICODE\_EXTENDED\_ESC

: 'u{' // Leadin for unicode extended escape sequence

HEX\_DIGIT+ // One or more hexadecimal digits

'}' // Leadout for unicode extended escape sequence

// Now check the digit count and issue an error if we need to

```

{
    int numDigits = getCharIndex()-state.tokenStartCharIndex-6;

```

```

        if (numDigits > 6) {
            Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
        }
    }
;

// -----
//
Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
    '
    | '\t'
    | '\r'
    | '\n'
    | '\f'
    )+
    {$channel=HIDDEN;}
;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and

```

```

// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: '"' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances
// of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
: .
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t)
+ " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
}
;

```

Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g

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 */

```

```

tree grammar BlockSetTransformer;
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
  output = AST;
  filter = true;
}

```

```

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Util;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;

```



```

import
java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {

```

```

GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}?
// top-level: rule block and > 1 alt
^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
elementOptions? setElement[inLexer]) )+
-> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
^(BLOCK ^(ALT elementOptions? setElement[inLexer]) (^(ALT elementOptions? setElement[inLexer]) )+
-> ^(SET[$BLOCK.token, "SET"] setElement+))
;

```

```

setElement[boolean inLexer]

```

```

@after {

```

```

GrammarTransformPipeline.setGrammarPtr(g, $tree);

```

```

}

```

```

: (^(a=STRING_LITERAL elementOptions) {!inLexer ||

```

```

CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?

```

```

| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?

```

```

| {!inLexer}?=> ^(TOKEN_REF elementOptions)

```

```

| {!inLexer}?=> TOKEN_REF

```

```

| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)

```

```

{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1

```

```

&&

```

```

CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?

```

```

)

```

```

;

```

```

elementOptions

```

```

: ^(ELEMENT_OPTIONS elementOption*)

```

```

;

```

```

elementOption

```

```

: ID

```

```

| ^(ASSIGN id=ID v=ID)

```

```

| ^(ASSIGN ID v=STRING_LITERAL)

```

```

| ^(ASSIGN ID v=ACTION)

```

```

| ^(ASSIGN ID v=INT)

```

```

;

```

```

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```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/parse/BlockSetTransformer.g

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 \*/

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```
@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}
```

```
@members {
ActionSplitterListener delegate;
```

```
public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}
```

```
/** force filtering
```

```

    (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}

}

// ignore comments right away

COMMENT
: '/' ( options {greedy=false;} : . )* '/' {delegate.text($text);}
;

LINE_COMMENT
: '/' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
;

SET_NONLOCAL_ATTR
: '$ x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$ x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
: '$ x=ID ':' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR
: '$ x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setAttr($text, $x, $expr);
}
;

```

```

ATTR
: '$'
x=ID {delegate.attr($text, $x);}
;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~("\| '$) {buf.append((char)$c);}
| "\\$' {buf.append('$);}
| "\\ c=~('$) {buf.append('\\).append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$);}
)+
;

fragment
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
: ~'=' (~';')*
;

fragment
WS : (' '\t' '\n' '\r')+
;

```

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\*/

Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ATNBuilder.java

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\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.java

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\*/

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\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java  
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\*/

```
dartTypeInitMap ::= [  
  "int": "0",  
  "double": "0.0",  
  "bool": "false",  
  default: "null" // anything other than a primitive type is an object  
]
```

```
// args must be <object-model-object>, <fields-resulting-in-STs>
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<  
<fileHeader(file.grammarFileName,  
  file.ANTLRVersion)>  
<if(file.genPackage)>  
library <file.genPackage>;
```

```
import 'package:antlr4/antlr4.dart';  
import 'dart:io';
```

```
<if(file.genListener)>  
part '<file.grammarName>Listener.dart';  
part '<file.grammarName>BaseListener.dart';  
<endif>  
<if(file.genVisitor)>  
part '<file.grammarName>Visitor.dart';  
part '<file.grammarName>BaseVisitor.dart';  
<endif>  
part '<file.grammarName>Lexer.dart';  
<else>  
import 'package:antlr4/antlr4.dart';  
import 'dart:io';
```

```
<if(file.genListener)>  
import '<file.grammarName>Listener.dart';  
import '<file.grammarName>BaseListener.dart';  
<endif>  
<if(file.genVisitor)>  
import '<file.grammarName>Visitor.dart';  
import '<file.grammarName>BaseVisitor.dart';  
<endif>  
<endif>
```

```
<namedActions.header>
<parser>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>
```

```
///
This abstract class defines a complete listener for a parse tree produced by
/// [<file.parserName>].
abstract class <file.grammarName>Listener extends ParseTreeListener {
<file.listenerNames:{Iname |
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the [<Iname>]
/// labeled alternative in [file.parserName>.<file.listenerLabelRuleNames.(Iname)>].
<else>
/// Enter a parse tree produced by [<file.parserName>.<Iname>].
<endif>
/// [ctx] the parse tree
void enter<Iname; format="cap">(<Iname; format="cap">Context ctx);
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the [<Iname>]
/// labeled alternative in [<file.parserName>.<file.listenerLabelRuleNames.(Iname)>].
<else>
/// Exit a parse tree produced by [<file.parserName>.<Iname>].
<endif>
/// [ctx] the parse tree
void exit<Iname; format="cap">(<Iname; format="cap">Context ctx);}; separator="\n"
}
>>
```

```
BaseListenerFile(file, header, namedActions)
::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';
```

```

import '<file.parserName>.dart';
import '<file.grammarName>Listener.dart';
<endif>

<header>

/// This class provides an empty implementation of [<file.grammarName>Listener],
/// which can be extended to create a listener which only needs to handle
/// a subset of the available methods.
class <file.grammarName>BaseListener implements <file.grammarName>Listener {
  <file.listenerNames>: {Iname |

  /// The default implementation does nothing.
  @override
  void enter<Iname; format="cap">(<Iname; format="cap">Context ctx) {}

  /// The default implementation does nothing.
  @override
  void exit<Iname; format="cap">(<Iname; format="cap">Context ctx) {}}; separator="\n">

  /// The default implementation does nothing.
  @override
  void enterEveryRule(ParserRuleContext ctx) {}

  /// The default implementation does nothing.
  @override
  void exitEveryRule(ParserRuleContext ctx) {}

  /// The default implementation does nothing.
  @override
  void visitTerminal(TerminalNode node) {}

  /// The default implementation does nothing.
  @override
  void visitErrorNode(ErrorNode node) {}
}

>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>

```

```

<header>

/// This abstract class defines a complete generic visitor for a parse tree
/// produced by [<file.parserName>].
///
/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.
abstract class <file.grammarName>Visitor<T> extends ParseTreeVisitor<T> {
  <file.visitorNames:{lname |
<if(file.visitorLabelRuleNames.(lname))>
  /// Visit a parse tree produced by the { @code <lname>}
  /// labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(lname)>}\.
  <else>
  ///
  Visit a parse tree produced by [<file.parserName>.<lname>].
  <endif>
  /// [ctx] the parse tree.
  /// Return the visitor result.
  T visit<lname; format="cap">(<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
import '<file.grammarName>Visitor.dart';
<endif>
<header>

/// This class provides an empty implementation of [<file.grammarName>Visitor],
/// which can be extended to create a visitor which only needs to handle
/// a subset of the available methods.
///
/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.
class <file.grammarName>BaseVisitor<T> extends ParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {
  <file.visitorNames:{lname |
  /// The default implementation
  returns the result of calling
  /// [visitChildren] on [ctx].
  @override
  T visit<lname; format="cap">(<lname; format="cap">Context ctx) => visitChildren(ctx);}; separator="\n">

```

```

}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// ignore_for_file: unused_import, unused_local_variable, prefer_single_quotes
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(namedActions.definitions)><namedActions.definitions><endif>
<if(parser.rules)>
const int <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>
class <parser.name> extends <superClass; null="Parser"> {
    static final checkVersion = () => RuntimeMetaData.checkVersion('<file.ANTLRVersion>',
RuntimeMetaData.VERSION);
    static const int TOKEN_EOF = IntStream.EOF;

    static final List<DFA> _decisionToDFA = List.generate(

        _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
    static final PredictionContextCache _sharedContextCache = PredictionContextCache();
    <if(parser.tokens)>
    static const int <parser.tokens:{k | TOKEN_<k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>

    @override
    final List<String> ruleNames = [
        <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
    ];

    <vocabulary(parser.literalNames, parser.symbolicNames)>

    @override
    String get grammarFileName => '<parser.grammarFileName>';

    @override
    String get serializedATN => _serializedATN;

    @override
    ATN getATN() {
        return _ATN;
    }
}

```

```

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
  @override
  bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
      <parser.sempredFuncs.values:{f}
    case <f.ruleIndex>:
      return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
    }
    return true;
  }
  <sempredFuncs.values; separator="\n">
<endif>

<atn>
}
<funcs:{ func | <if(func.ruleCtx)><func.ruleCtx><endif>}; separator="\n\n">

<funcs:{ func | <if(func.altLabelCtxs)><func.altLabelCtxs:{l | <func.altLabelCtxs(l)>};
separator="\n\n"><endif>}>
>>

vocabulary(literalNames, symbolicNames) ::= <<
static final List<String> _LITERAL_NAMES = [
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final List<String> _SYMBOLIC_NAMES = [
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final Vocabulary VOCABULARY = VocabularyImpl(_LITERAL_NAMES, _SYMBOLIC_NAMES);

@override
Vocabulary get vocabulary {
  return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
  switch (ruleIndex) {
    <recog.actionFuncs.values:{f}
  case <f.ruleIndex>:
    _<f.name>_action(_localctx, actionIndex);
    break;}; separator="\n">

```

```

    }
    }
    <actionFuncs.values;
    separator="\n">
    <endif>
    <if(sempredFuncs)>
    bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
    <recog.sempredFuncs.values:{f]
    case <f.ruleIndex>:
    return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
    }
    return true;
    }
    <sempredFuncs.values; separator="\n">
    <endif>
    >>

    parser_ctor(p) ::= <<
    <p.name>(TokenStream input) : super(input) {
    interpreter = ParserATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
    }
    >>

    /// This generates a private method since the actionIndex is generated, making an
    /// overriding implementation impossible to maintain.
    RuleActionFunction(r, actions) ::= <<
    void _<r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {
    <actions:{index|case <index>: <actions.(index)> break;}; separator="\n">
    }
    }
    >>

    /// This generates a private method since the predIndex is generated, making an
    /// overriding implementation impossible to maintain.
    RuleSempredFunction(r,
    actions) ::= <<
    bool _<r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
    switch (predIndex) {
    <actions:{index|case <index>: return <actions.(index)>;}; separator="\n">
    }
    return true;
    }
    >>

    RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
    ::= <<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else><endif><currentRule.ctxType>
<currentRule.name><(<args; separator=", ">) {
dynamic _localctx = <currentRule.ctxType>(context, state<currentRule.args:{ a | , <a.name>}>);
enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
} <if(exceptions)> <exceptions; separator="\n"><else>on RecognitionException catch (re) {
_localctx.exception = re;
errorHandler.reportError(this, re);
errorHandler.recover(this,
re);
}<endif> finally {
<finallyAction>
exitRule();
}
return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

```

```

<currentRule.ctxType> <currentRule.name><([int _p = 0]<args:{ a | , <a>}>) {
final _parentctx = context;
final _parentState = state;
dynamic _localctx = <currentRule.ctxType>(context, _parentState<currentRule.args:{ a | , <a.name>}>);
var _prevctx = _localctx;
var _startState = <currentRule.startState>;
enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
} on RecognitionException catch (re) {

```



```

    _localctx.exception = re;
    errorHandler.reportError(this, re);
    errorHandler.recover(this, re);
} finally {
    <finallyAction>
    unrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (tokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
switch
(tokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;}; separator="\n">
default:
break;

```

```
}  
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<  
state = <choice.stateNumber>;  
errorHandler.sync(this);  
<preamble; separator="\n">  
if (<expr>) {  
  <alts; separator="\n">  
}  
<!else if ( !(<followExpr>) ) <error!>  
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
state = <choice.stateNumber>;  
errorHandler.sync(this);  
<preamble; separator="\n">  
while (<loopExpr>) {  
  <alts; separator="\n">  
  state = <choice.loopBackStateNumber>;  
  errorHandler.sync(this);  
  <iteration>  
}  
>>
```

```
LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<  
state = <choice.blockStartStateNumber>; <! alt block decision !>  
errorHandler.sync(this);  
<preamble; separator="\n">  
do {  
  <alts; separator="\n">  
  state = <choice.stateNumber>; <! loopback/exit decision !>  
  errorHandler.sync(this);  
  <iteration>  
} while (<loopExpr>);  
>>
```

```
// LL(*) stuff
```

```
AltBlock(choice, preamble, alts, error) ::= <<  
state = <choice.stateNumber>;  
errorHandler.sync(this);  
<if(choice.label)><labelref(choice.label)> = tokenStream.LT(1);<endif>  
<preamble; separator="\n">  
switch (interpreter.adaptivePredict(tokenStream, <choice.decision>, context)) {  
  <alts:{alt |  
  case <i>:  
  <alt>
```

```

break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
switch (interpreter.adaptivePredict(tokenStream, <choice.decision>, context)) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
state = <choice.stateNumber>;
errorHandler.sync(this);
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
if (_alt == 1<if(!choice.ast.greedy)> + 1<endif>) {

<iteration>
<alts> <! should only be one !>
}
state = <choice.loopBackStateNumber>;
errorHandler.sync(this);
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
state = <choice.blockStartStateNumber>; <! alt block decision !>
errorHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch (_alt) {
<alts:{ alt|
case <i><if(!choice.ast.greedy)> + 1<endif>:
<alt>
break;}; separator="\n">
default:
<error>
}
state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
errorHandler.sync(this);
_alt = interpreter.adaptivePredict(tokenStream, <choice.decision>, context);
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER);

```

>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw NoViableAltException(this);"

TestSetInline(s) ::= <<

<s.bitsets:{bits | <if(rest(rest(bits.ttypes))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator=" || ">

>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test

testShiftInRange(shiftAmount) ::= <<

((<shiftAmount>) & ~0x3f) == 0

>>

// produces smaller bytecode only when bits.ttypes contains more than two items

bitsetBitfieldComparison(s, bits) ::= <%

(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((BigInt.one \<< <offsetShift(s.varName, bits.shift)>) & (<bits.ttypes:{ttype | (BigInt.one \<< <offsetShift({TOKEN\_<ttype>}, bits.shift)>)}); separator=" | ">>) != BigInt.zero)

%>

isZero ::= [

"0":true,

default:false

]

offsetShift(shiftAmount, offset) ::= <%

<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>

%>

// produces more efficient bytecode when bits.ttypes contains at most two items

bitsetInlineComparison(s, bits) ::= <%

<bits.ttypes:{ttype | <s.varName> == TOKEN\_<ttype>}; separator=" || ">

%>

cases(ttypes) ::= <<

<ttypes:{t | case TOKEN\_<t>:}; separator="\n">

>>

InvokeRule(r,

argExprsChunks) ::=<<

state = <r.stateNumber>;

<if(r.labels)><r.labels:[1 | <labelref(l)> =

]><endif><r.name><if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>

);

>>

```

MatchToken(m) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>match(TOKEN_<m.name>);
>>

```

```

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>tokenStream.LT(1);<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif><expr>) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>errorHandler.recoverInline(this);
} else {
  if ( tokenStream.LA(1)==IntStream.EOF ) matchedEOF = true;
  errorHandler.reportMatch(this);
  consume();
}
>>

```

```

Wildcard(w) ::= <<
state = <w.stateNumber>;
<if(w.labels)><w.labels:{1
| <labelref(l)> = }><endif>matchWildcard();
>>

```

```

// ACTION STUFF

```

```

Action(a, foo, chunks) ::= "<chunks>"

```

```

ArgAction(a, chunks) ::= "<chunks>"

```

```

SemPred(p, chunks, failChunks) ::= <<
state = <p.stateNumber>;
if (!(<chunks>)) {
  throw FailedPredicateException(this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>

```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()";
```

```
LexerMoreCommand() ::= "more()";
```

```
LexerPopModeCommand() ::= "popMode()";
```

```
LexerTypeCommand(arg, grammar) ::= "type = <arg>";
```

```
LexerChannelCommand(arg, grammar) ::= "channel = <arg>";
```

```
LexerModeCommand(arg, grammar) ::= "mode_ = <arg>";
```

```
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>);"
```

```
ActionText(t) ::= "<t.text>"
```

```
ActionTemplate(t) ::= "<t.st>"
```

```
ArgRef(a) ::= "_localctx.<a.name>"
```

```
LocalRef(a) ::= "_localctx.<a.name>"
```

```
RetValRef(a)
```

```
 ::= "_localctx.<a.name>"
```

```
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
```

```
/** How to translate $tokenLabel */
```

```
TokenRef(t) ::= "<ctx(t)>.<t.name>"
```

```
LabelRef(t) ::= "<ctx(t)>.<t.name>"
```

```
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
```

```
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";
```

```
TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
```

```
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"
```

```
TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>?.text"
```

```
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.type : 0"
```

```
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.line : 0"
```

```
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.charPositionInLine : 0"
```

```
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.channel : 0"
```

```
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.tokenIndex : 0"
```

```
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != null ?
```

```
int.parse(<ctx(t)>.<t.label>.text) : 0"
```

```
RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>?.start"
```

```
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>?.stop"
```

```
RulePropertyRef_text(r) ::= "(<ctx(r)>.<r.label> != null ? tokenStream.getTextRange(<ctx(r)>.<r.label>.start,  
<ctx(r)>.<r.label>.stop) : null)"
```

```
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
```

```
RulePropertyRef_parser(r) ::= "this"
```

```
ThisRulePropertyRef_start(r) ::= "_localctx.start"
```

```
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
```

```
ThisRulePropertyRef_text(r) ::= "tokenStream.getTextRange(_localctx.start, tokenStream.LT(-1))"
```

```
ThisRulePropertyRef_ctx(r) ::= "_localctx"
```

```

ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t)
::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = List<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = List<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::= <<
TerminalNode <t.name>() => getToken(<parser.name>.TOKEN_<t.name>, 0);
>>

ContextTokenListGetterDecl(t) ::= <<
List<TerminalNode> <t.name>s() => getTokens(<parser.name>.TOKEN_<t.name>);
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
TerminalNode <t.name>(int i) => getToken(<parser.name>.TOKEN_<t.name>, i);
>>

ContextRuleGetterDecl(r) ::= <<
<r.ctxName> <r.name>() => getRuleContext<<r.ctxName>>();
>>

ContextRuleListGetterDecl(r) ::= <<
List<<r.ctxName>> <r.name>s() => getRuleContexts<<r.ctxName>>();
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.ctxName> <r.name>(int i) => getRuleContext<<r.ctxName>>(i);
>>

LexerRuleContext() ::= "RuleContext"

/// The rule
context name is the rule followed by a suffix; e.g.,
/// r becomes rContext.
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = tokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = tokenStream.LA(1);"

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
  <attrs:{ a | <a>;}; separator="\n">
  <getters:{ g | <g>;}; separator="\n">
  <struct.name>([ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>>] ) : super(parent,
invokingState)<if(struct.ctorAttrs)> {
    <struct.ctorAttrs:{ a | this.<a.name> = <a.name>;}; separator="\n">
  }<else>;<endif>

```

```
@override
```

```

int get ruleIndex => RULE_<struct.derivedFromName>;
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
@override
void copyFrom(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{ a | this.<a.name> = (ctx as <struct.name>).<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {
  <attrs:{ a | <a>;}; separator="\n">
  <getters:{ g | <g>;}; separator="\n">
  <struct.name>(<struct.parentRule; format="cap">Context ctx) { copyFrom(ctx); }
  <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@override
void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
  if (listener is <parser.grammarName>Listener)
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName>;
  format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
@override

```



```

T accept\<T>(ParseTreeVisitor\<T> visitor) {
  if (visitor is <parser.grammarName>Visitor\<T>) {
    return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
    return visitor.visitChildren(this);
  }
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

// If we don't know location of label def x, use this template
labelref(x) ::= "<if(!x.isLocal)>_localctx.<endif><x.name>"

// For any action chunk, what is correctly-typed context struct ptr?
ctx(actionChunk) ::= "_localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name> = $<src>.<name>";"
recRuleSetStopToken() ::= "context.stop = tokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
  _localctx = <ctxName>Context(_parentctx, _parentState);
  <if(label)>
  <if(isListLabel)>
  _localctx.<label>.add(_prevctx);
  <else>
  _localctx.<label>
  = _prevctx;
  <endif>
  <endif>
  pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
  >>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
  _parentState));
  <if(label)>
  <if(isListLabel)>
  _localctx.<label>.add(_prevctx);
  <else>
  _localctx.<label> = _prevctx;
  <endif>
  <endif>
  pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
  >>

```

```

recRuleReplaceContext(ctxName) ::= <<
  _localctx = <ctxName>Context(_localctx);
  context = _localctx;
  _prevctx = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
  if (parseListeners != null) triggerExitRuleEvent();
  _prevctx = _localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
  part of <lexerFile.genPackage>;
  <else>
  import
  'package:antlr4/antlr4.dart';
  <endif>
  <namedActions.header>

  <lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
  <if(namedActions.definitions)><namedActions.definitions><endif>

```

```

class <lexer.name> extends <superClass; null="Lexer"> {
  static final checkVersion = () => RuntimeMetaData.checkVersion('<lexerFile.ANTLRVersion>',
  RuntimeMetaData.VERSION);

```

```

  static final List<DFA> _decisionToDFA = List.generate(
    _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
  static final PredictionContextCache _sharedContextCache = PredictionContextCache();
  <if(lexer.tokens)>
  static const int
    <lexer.tokens:{k | TOKEN_<k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>
  <if(lexer.channels)>
  static const int
    <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
  <endif>
  <if(rest(lexer.modes))>
  static const int
    <rest(lexer.modes):{m | <m> = <i>}; separator=", ", wrap, anchor>;
  <endif>

```

```

@Override
final List<String> channelNames = [
    'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c| '<c>'}; separator=", ",
wrap, anchor><endif>
];

@Override
final List<String> modeNames = [
    <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
];

@Override
final List<String> ruleNames = [
    <lexer.ruleNames:{r| '<r>'}; separator=", ", wrap, anchor>
];

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>

<lexer.name>(CharStream input) : super(input) {
    interpreter = LexerATNSimulator(_ATN, _decisionToDFA, _sharedContextCache, recog: this);
}

@Override
String get serializedATN => _serializedATN;

@Override
String get grammarFileName => '<lexer.grammarFileName>';

@Override
ATN getATN() { return _ATN; }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
static const int _serializedATNSegments
    = <length(model.segments)>;
<model.segments:{segment|static final String _serializedATNSegment<i0> =
'<segment; wrap='{<n><t>'}>'}; separator="\n">
static final String _serializedATN = [
    <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
].join();

```

```

<else>
<! only one segment, can be inlined !>
static const String _serializedATN = '<model.serialized; wrap={'\<n>\<t>'}>';
<endif>
static final ATN _ATN =
    ATNDeserializer().deserialize(_serializedATN.codeUnits);
>>

/// Using a type to init value map, try to init a type; if not in table
/// must be an object, default value is "null".
initValue(typeName) ::= <<
<dartTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".dart"

```

Found in path(s):

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Dart/Dart.stg

```

No license file was found, but licenses were detected in source scan.

```

/*

```

```

* Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.

```

```

* Use of this file is governed by the BSD 3-clause license that

```

```

* can be found in the LICENSE.txt file in the project root.

```

```

*/

```

Found in path(s):

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/Action.java

```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/target/Python2Target.java

```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/Decl.java

```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/target/JavaScriptTarget.java

```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/target/JavaTarget.java

```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/ListenerFile.java

```

```

*

```

```

/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java

```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/LexerFile.java

```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/Lexer.java

```

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-

```

```

jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/PlusBlock.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/parse/GrammarASTAdaptor.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/gui/SystemFontMetrics.java
*
/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/automata/ParserATNFactory.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/Attribute.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/parse/ToolANTLRParser.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
*
/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ScopeParser.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/parse/TokenVocabParser.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/RuleAST.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/ArgAction.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/LexerFactory.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/ParserFile.java
*
/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-

```

```

jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/TestSetInline.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/RuleElement.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/CodeGenPipeline.java
*
/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/LabelType.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/parse/GrammarToken.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/AltBlock.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/OutputFile.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/Trees.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/RuleActionFunction.java
*
/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/BuildDependencyGenerator.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
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* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
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\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-  
jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-  
jar/org/antlr/v4/codegen/CodeGenerator.java

\*  
/opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_pos.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValRef.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/SwiftTarget.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ActionSplitterListener.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_stop.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java  
\*  
/opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/automata/ATNOptimizer.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/AttributeDict.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/ActionAST.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ToolMessage.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/UnicodeEscapes.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java  
\*  
/opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/TestRig.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_start.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/Rule.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/DartTarget.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/SymbolCollector.java  
\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java

```

*
/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/target/GoTarget.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ErrorType.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/Tool.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/LeftRecursiveRule.java
*
/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/Recognizer.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/ActionTranslator.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/CaptureNextToken.java
*
/opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
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\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg

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 \*/

```
tree grammar SourceGenTriggers;
options {
language    = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
}
```

```
@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import
java.util.Map;
import java.util.HashMap;
}
```

```
@members {
public OutputModelController controller;
public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
this(input);
this.controller = controller;
}
}
```

```
dummy : block[null, null] ;
```

```
block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
: ^( blk=BLOCK (^ (OPTIONS .+)) ?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
( alternative {alts.add($alternative.altCodeBlock);} )+
)
{
if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
```

```

        Somos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
    }
    else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
        Somos = DefaultOutputModelFactory.list(choice);
    }
}
;

```

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

@init {
    boolean outerMost = inContext("RULE BLOCK");
}
@after {
    controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
;

```

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

@init {
    // set alt if outer ALT only (the only ones with alt field set to Alternative object)
    AltAST altAST = (AltAST)retval.start;
    if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
    List<SrcOp> elems = new ArrayList<SrcOp>();
    // TODO: shouldn't we pass $start to controller.alternative()?
    $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
    $altCodeBlock.ops = $ops = elems;
    controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions?
EPSILON)
    {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
;

```

element returns [List<? extends SrcOp> omos]

```

: labeledElement    {$omos = $labeledElement.omos;}
| atom[null,false] {$omos = $atom.omos;}
| subrule          {$omos = $subrule.omos;}
| ACTION          {$omos = controller.action((ActionAST)$ACTION);}
| SEMPRED         {$omos = controller.sempred((ActionAST)$SEMPRED);}
| ^(ACTION elementOptions) {$omos = controller.action((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {$omos = controller.sempred((ActionAST)$SEMPRED);}

```



```

;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) { $omos = $atom.omos;}
| ^(PLUS_ASSIGN ID atom[$ID,false]) { $omos = $atom.omos;}
| ^(ASSIGN ID block[$ID,null] ) { $omos = $block.omos;}
| ^(PLUS_ASSIGN ID block[$ID,null]) { $omos = $block.omos;}
;

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
  $omos = $block.omos;
}
| ( ^(op=CLOSURE
b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
  hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
  $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null] { $omos = $block.omos;}
;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) { $omos = controller.set($SET, $label, invert);}
;

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT

```

```

a=atom[$label, true] { $omos = $a.omos;}
| range[label]    { $omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .)   { $omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD       { $omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] { $omos = $terminal.omos;}
| ruleref[label] { $omos = $ruleref.omos;}
| blockSet[$label, invert] { $omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) { $omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;

terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) { $omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL { $omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) { $omos =
controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .) { $omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF { $omos = controller.tokenRef($TOKEN_REF, $label, null);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

Found in path(s):
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/codegen/SourceGenTriggers.g
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 \*/

```
SwiftTypeInitMap ::= [
  "Int": "0",
  "Int64": "0",
  "Float": "0.0",
  "Double": "0.0",
  "Bool": "false",
  default: "nil" // anything other than a primitive type is an object
]
```

```
SwiftTypeMap ::= [
  "int": "Int",
  "float": "Float",
  "long": "Int64",
  "double": "Double",
  "bool": "Bool",
  "boolean": "Bool",
  default : key
]
```

// args must be <object-model-object>.

<fields-resulting-in-STs>

```
accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"
```

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4
```

```
/**
 * This interface defines a complete listener for a parse tree produced by
 * { @link <file.parserName> }.
 */
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
  <file.listenerNames: {lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Enter a parse tree produced by the { @code <lname>}
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>}|.
<else>
 * Enter a parse tree produced by { @link <file.parserName>#<lname>}|.
<endif>
- Parameters:
  - ctx: the parse tree
 */
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Exit a parse tree produced by the { @code <lname>}
 * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>}|.
<else>
 * Exit a parse tree produced by { @link <file.parserName>#<lname>}|.
<endif>
```

- Parameters:

- ctx: the parse tree

\*/

```
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context); separator="\n">
}
>>
```

```
BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
```

```
import Antlr4
```

```
/**
```

```
* This class provides an empty implementation of { @link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle
* a subset
* of the available methods.
```

```
*/
```

```
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
  <accessLevelNotOpen(file)> init() { \}
  <file.listenerNames: {lname |
```

```
/**
```

```
* { @inheritDoc\}
```

```
*
```

```
* \<p>The default implementation does nothing.\</p>
```

```
*/
```

```
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
```

```
/**
```

```
* { @inheritDoc\}
```

```
*
```

```
* \<p>The default implementation does nothing.\</p>
```

```
*/
```

```
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}; separator="\n">
```

```
/**
```

```
* { @inheritDoc\}
```

```
*
```

```
* \<p>The default implementation does nothing.\</p>
```

```
*/
```

```
<accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
```

```

/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by { @link <file.parserName> }.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void } for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
  <file.visitorNames:{Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
 * Visit a parse tree produced by the { @code <Iname>}
 * labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)>}.
<else>
 * Visit a parse tree produced by { @link <file.parserName>#<Iname>}.
<endif>
- Parameters:
- ctx: the parse tree

```

```

- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
    fatalError("#function + " must be overridden")
}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
    <file.visitorNames:{ lname
    |
    /**
    * { @inheritDoc\}
    *
    * \<p>The default implementation returns the result of calling
    * { @link #visitChildren\} on { @code ctx\}.\</p>
    */
    <accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}; separator="\n">
    }
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!--@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {

    internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
            <!-- decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
i);!>
            decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
        }
        return decisionToDFA
    }()

    internal static let _sharedContextCache = PredictionContextCache()

    <if(parser.tokens)>
    <accessLevelNotOpen(parser)>
    enum Tokens: Int {
        case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
    }
    <endif>

    <accessLevelNotOpen(parser)>
    <if(parser.rules)>
    static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
    <endif>

    <accessLevelNotOpen(parser)>
    static let ruleNames: [String] = [
        <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    ]

    <vocabulary(parser.literalNames, parser.symbolicNames,
        accessLevelNotOpen(parser))>

    override <accessLevelOpenOK(parser)>
    func getGrammarFileName() -> String { return "<parser.grammarFileName; format="java-escape">" }

    override <accessLevelOpenOK(parser)>
    func
    getRuleNames() -> [String] { return <parser.name>.ruleNames }

    override <accessLevelOpenOK(parser)>
    func getSerializedATN() -> String { return <parser.name>._serializedATN }

    override <accessLevelOpenOK(parser)>

```



```

func getATN() -> ATN { return <parser.name>._ATN }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx:RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f}
case <f.ruleIndex>:
return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex); separator="\n">
default: return true
}
<!return true;!>
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>

<accessLevelNotOpen(parser)>
static let _serializedATN = <parser.name>ATN().jsonString

<accessLevelNotOpen(parser)>
static let _ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames,
accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
<literalNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
<symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx:RuleContext?, _ ruleIndex: Int, _ actionIndex: Int) throws {
switch (ruleIndex) {
<recog.actionFuncs.values:{f}

```

```

case <f.ruleIndex>:
  <f.name>_action(_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
default: break
}
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int, _ predIndex: Int) throws -> Bool {
  switch (ruleIndex) {
  <recog.sempredFuncs.values: {f|
case <f.ruleIndex>:
  return
  try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
  default: return true
  }
  <!return true;!>
  }
  <sempredFuncs.values; separator="\n">
  <endif>
  >>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
  return <p.name>.VOCABULARY
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
  RuntimeMetaData.checkVersion("4.9.2", RuntimeMetaData.VERSION)
  try super.init(input)
  _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
  <p.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?, _ actionIndex: Int) {
  switch (actionIndex) {
  <actions: {index|

```

```

case <index>:
  <actions.(index)>
  }; separator="\n">
  default: break
}
}
>>

/* This generates
a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!, _ predIndex: Int) throws -> Bool {
  switch (predIndex) {
  <actions:{index|
    case <index>:return <actions.(index)>}; separator="\n">
    default: return true
  }
  <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
  var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
  <a.name>}>)
  try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
  <namedActions.init>
  <locals;
  separator="\n">
  defer {
    <finallyAction>
    try! exitRule()
  }
  do {
  <if(currentRule.hasLookaheadBlock)>
  var _alt:Int
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
  }
}

```

```

<if(exceptions)>
<exceptions; separator="\n">
<else>
catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
}
<endif>

return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.name>( <if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
  return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
@discardableResult
private
func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType> {
  let _parentctx: ParserRuleContext? = _ctx
  let _parentState: Int = getState()
  var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>)
  var _prevctx: <currentRule.ctxType> = _localctx
  let _startState: Int = <currentRule.startState>
  try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
  do {
  <if(currentRule.hasLookaheadBlock)>
  var _alt: Int
  <endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>

```

```

}
catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
}

return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble,
ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!/{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!/{}!>
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(ttypes=look)>
<alt>
break}; separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!)
{
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>

```

```

break }; separator="\n">
default:
break
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
<alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
<alts; separator="\n">
setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)
<iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
<alts; separator="\n">
setState(<choice.stateNumber>); <! loopback/exit decision !>
try _errHandler.sync(self)
<iteration>
} while (<loopExpr>)
>>

```

```

//
LL(*) stuff

```

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">

```

```

switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
<alt>
break }; separator="\n">
default: break
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break }; separator="\n">
default: break
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should
only be one !>
}
setState(<choice.loopBackStateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
switch (_alt) {
<alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break }; separator="\n">
default:

```

```

<error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER)
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<!<s.bitsets:{bits | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" | ">!>
//closure
{ () -> Bool in
  <if(rest(s.bitsets)>>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}&>
  <rest(s.bitsets):{bits | testSet = testSet | <if(rest(rest(bits.ttypes))>><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator="\n">
  return testSet
}()
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>}); separator=" | ">)) != 0)!>
{ ()
-> Bool in
  <! let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)>!>
  <!var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)>!>
  <!temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)!>
  <!let test1: Int64 = (Int64(1) \<< temp)!>
  <!var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)>!>
  <!<rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>};
separator="\n">!>
  let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}; separator=", ">]
  <!var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>
  return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

```



```

isZero ::= [
"0": true,
default: false
]
parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

//
produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes: {ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): {t | case .<t>:fallthrough} ; separator="\n">
<last(ttypes): {t | case .<t>:} ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
let assignmentValue = try
<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks>)
<r.labels: {l | <labelref(l)> = assignmentValue} ; separator="\n">
}()
<else>try
<r.name><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><argExprsChunks><endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
let assignmentValue = try match(<parser.name>.Tokens.<m.name>.rawValue)
<m.labels: {l | <labelref(l)> = assignmentValue} ; separator="\n">
}()
<else>try match(<parser.name>.Tokens.<m.name>.rawValue)<endif>
>>

MatchSet(m,
expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```
MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"
```

```
CommonSetStuff(m, expr, capture, invert) ::= <<  
  setState(<m.stateNumber>)  
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }>try _input.LT(1)<endif>  
  <capture>  
  if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {  
    <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as  
    Token<endif>  
  }  
  else {  
    _errHandler.reportMatch(self)  
    try consume()  
  }  
>>
```

```
Wildcard(w) ::= <<  
  setState(<w.stateNumber>)  
  <if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>try matchWildcard();  
>>
```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```
SemPred(p, chunks, failChunks) ::= <<  
  setState(<p.stateNumber>)  
  if (!<chunks>)) {  
    throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,  
  <failChunks><elseif(p.msg)>, <p.msg><endif>))  
  }  
>>
```

```
ExceptionClause(e, catchArg, catchAction) ::= <<  
  catch (<catchArg>) {  
    <catchAction>  
  }  
>>
```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()"
```

```
LexerMoreCommand() ::= "more()"
```

```
LexerPopModeCommand() ::= "popMode()"
```

```
LexerTypeCommand(arg) ::= "_type = <arg>"
```

```

LexerChannelCommand(arg) ::= "_channel = <arg>"
LexerModeCommand(arg) ::= "_mode = <arg>"
LexerPushModeCommand(arg) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType()
 ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\""
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\""
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\""
RulePropertyRef_text(r)
 ::= "<ctx(r)>.<r.label> != nil ? try _input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\""
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "(try _input.getText(_localctx.start, try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
 "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"

```

```

TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: [Token] = [Token]()"
RuleContextDecl(r)
  ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

```

```

ContextTokenGetterDecl(t) ::= <<
  <accessLevelOpenOK(parser)>
  func <t.name>() -> TerminalNode? {
    return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0)
  }
>>

```

```

ContextTokenListGetterDecl(t) ::= <<
  <accessLevelOpenOK(parser)>
  func <t.name>() -> [TerminalNode] {
    return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
  }
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
  <accessLevelOpenOK(parser)>
  func <t.name>(_ i: Int) -> TerminalNode? {
    return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
  }
>>

```

```

ContextRuleGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func <r.name>() -> <r.ctxName>? {
    return getRuleContext(<r.ctxName>.self, 0)
  }
>>

```

```

ContextRuleListGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func <r.name>() -> [<r.ctxName>] {
    return getRuleContexts(<r.ctxName>.self)
  }
>>

```

```

ContextRuleListIndexedGetterDecl(r) ::= <<
  <accessLevelOpenOK(parser)>
  func
  <r.name>(_ i: Int) -> <r.ctxName>? {
    return getRuleContext(<r.ctxName>.self, i)
  }
>>

```

```

LexerRuleContext() ::= "RuleContext"

```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.

```

```

*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.name>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces>
separator=", "><endif> {
    <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
    <getters:{g | <g>}; separator="\n">
    <!
    <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState) }<endif> !>
    <if(ctorAttrs)>
    <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState: Int<ctorAttrs:{a | ,
_ <a>}> ) {
    self.init(parent, invokingState)
    <struct.ctorAttrs:{a | self.<a.name> = <a.name>;}; separator="\n">
    }
    <endif>

    override <accessLevelOpenOK(parser)>
    func getRuleIndex() -> Int {
    return <parser.name>.RULE_<struct.derivedFromName>
    }
    <if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
    <accessLevelOpenOK(parser)>
    override func copyFrom(_ ctx_: ParserRuleContext) {
    super.copyFrom(ctx_)
    let ctx = ctx_ as! <struct.name>
    <struct.attrs:{a | self.<a.name> = ctx.<a.name>;}; separator="\n">
    }
    <endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">
    }
    >>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<

```

```

<accessLevelNotOpen(parser)>
class <struct.name>: <currentRule.name; format="cap">Context {
<attrs:{ a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
<getters:{ g | <g>}; separator="\n">

<accessLevelNotOpen(parser)>
init(_ ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
}
<dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
  if let listener = listener as? <parser.grammarName>Listener {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
  }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept<T>(_ visitor: ParseTreeVisitor<T>) -> T? {
  if let visitor = visitor as? <parser.grammarName>Visitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  }
  else if let visitor = visitor as? <parser.grammarName>BaseVisitor
  {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  }
  else {
    return visitor.visitChildren(self)
  }
}
>>

AttributeDecl(d) ::= "<d.name>: <SwiftTypeMap.(d.type)><if(d.initValue)> = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules

```

```
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
```

```
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
```

```
recRuleSetStopToken() ::= "_ctx!.stop = try _input.LT(-1)"
```

```
recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
```

```
_localctx = <ctxName>Context(_parentctx, _parentState);
```

```
<if(label)>
```

```
<if(isListLabel)>
```

```
_localctx.<label>.append(_prevctx)
```

```
<else>
```

```
_localctx.<label>
```

```
= _prevctx
```

```
<endif>
```

```
<endif>
```

```
<if(label)>_localctx.<label> = _prevctx;<endif>
```

```
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
```

```
>>
```

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
```

```
_localctx = <currentAltLabel; format="cap">Context( <ruleName; format="cap">Context(_parentctx,  
_parentState))
```

```
<if(label)>
```

```
<if(isListLabel)>
```

```
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
```

```
<else>
```

```
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
```

```
<endif>
```

```
<endif>
```

```
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
```

```
>>
```

```
recRuleReplaceContext(ctxName) ::= <<
```

```
_localctx = <ctxName>Context(_localctx)
```

```
_ctx = _localctx
```

```
_prevctx = _localctx
```

```
>>
```

```
recRuleSetPrevCtx() ::= <<
```

```
if _parseListeners != nil {
```

```
  try triggerExitRuleEvent()
```

```
}
```

```
_prevctx = _localctx
```

```
>>
```

```
LexerFile(lexerFile, lexer, namedActions) ::= <<
```

```
<fileHeader(lexerFile.grammarFileName,
```

```

lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>: <superClass; null="Lexer"> {

internal static var _decisionToDFA: [DFA] = {
    var decisionToDFA = [DFA]()
    let length = <lexer.name>._ATN.getNumberOfDecisions()
    for i in 0..<length {
        <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i!), i);!>
        decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i!), i))
    }
    return decisionToDFA
}()

internal static let _sharedContextCache = PredictionContextCache()

<accessLevelNotOpen(lexer)>
<if(lexer.tokens)>
static let <lexer.tokens>:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
<endif>

<if(lexer.channels)>
<accessLevelNotOpen(lexer)>
static let <lexer.channels>:{k | <k>=<lexer.channels.(k)>};
separator=", ", wrap, anchor>
<endif>
<if(rest(lexer.modes))>
<accessLevelNotOpen(lexer)>
static let <rest(lexer.modes)>:{m | <m>=<i>}; separator=", ", wrap, anchor>
<endif>
<accessLevelNotOpen(lexer)>
static let channelNames: [String] = [
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c | "<c>"}; separator=", ",
wrap, anchor><endif>
]

<accessLevelNotOpen(lexer)>
static let modeNames: [String] = [
    <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
]

```



```

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames,
  accessLevelNotOpen(lexer))>

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
  return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
  RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>",
RuntimeMetaData.VERSION)
  super.init(input)
  _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> String { return <lexer.name>._serializedATN }

override <accessLevelOpenOK(lexer)>
func getChannelNames() -> [String] { return <lexer.name>.channelNames }

override <accessLevelOpenOK(lexer)>
func getModeNames() -> [String] { return <lexer.name>.modeNames }

override <accessLevelOpenOK(lexer)>
func getATN() -> ATN { return <lexer.name>._ATN }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>

<accessLevelNotOpen(lexer)>
static let _serializedATN: String = <lexer.name>ATN().jsonString

```

```

<accessLevelNotOpen(lexer)>
static
let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
 * which is referenced from static field _serializedATN. This json string is passed to
 * deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
 * do. It is more or less the output of ATNPrinter which gets read back in.
 */
SerializedATN(model) ::= <<
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"

Found in path(s):
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.

/*
 * [The "BSD license"]
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 * Copyright (c) 2013 Sam Harwell
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 *
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```

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\* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY  
\* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT  
\* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF  
\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
\*/

// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
namespace <file.genPackage> {  
<endif>  
<namedActions.header>  
using System;  
using System.IO;  
using System.Text;  
using System.Diagnostics;  
using System.Collections.Generic;  
using  
    Antlr4.Runtime;  
using Antlr4.Runtime.Atn;  
using Antlr4.Runtime.Misc;  
using Antlr4.Runtime.Tree;  
using DFA = Antlr4.Runtime.Dfa.DFA;  
  
<parser>  
<if(file.genPackage)>  
} // namespace <file.genPackage>  
<endif>  
>>
```

```
ListenerFile(file, header, namedActions) ::= <<  
<fileHeader(file.grammarFileName, file.ANTLRVersion)>  
<if(file.genPackage)>  
namespace <file.genPackage> {  
<endif>  
<header>  
using Antlr4.Runtime.Misc;  
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;  
using IToken = Antlr4.Runtime.IToken;
```

```

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<csIdentifier.(file.parserName)>">/.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
    <file.listenerNames: {Iname |
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the \<c><Iname>\</c>
/// labeled
    alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">/.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>">/.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>">/.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>">/.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>

```

```

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;

```

```

using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
    <file.listenerNames: { Iname |
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Enter a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
///
    Enter a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(Iname))>
/// Exit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(Iname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { \} }; separator="\n">

/// \<inheritdoc/>
///
\<remarks>The default implementation does nothing.\</remarks>
public virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>

```

```

public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
/// \<inheritdoc/>
/// \<remarks>The default implementation does nothing.\</remarks>
public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete
generic visitor for a parse tree produced
/// by \<see cref="<csIdentifier.(file.parserName)>">/>.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor<Result> : IParseTreeVisitor<Result> {
<file.visitorNames:{ Iname |
/// \<summary>
<if(file.visitorLabelRuleNames.(Iname))>
/// Visit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>">/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>">/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; format="cap">Context
context);}; separator="\n"
}
<if(file.genPackage)>
} // namespace
<file.genPackage>
<endif>
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<<Result> : AbstractParseTreeVisitor<<Result>,
I<file.grammarName>Visitor<<Result> {
    <file.visitorNames:{ Iname |
/// \<summary>
<if(file.visitorLabelRuleNames.(Iname))>
///
    Visit a parse tree produced by the \<c><Iname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
format="cap">Context context) { return VisitChildren(context); \}}; separator="\n">
    }
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//-----
//\<auto-generated>
//
//    This code was generated by a tool.
//    ANTLR Version: <ANTLRVersion>
//
//    Changes to this file may cause incorrect behavior and will be lost if
//    the code is regenerated.
//\</auto-generated>
//-----

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(parser.name)> : <superClass>
    null="Parser"> {
    protected static DFA[] decisionToDFA;
    protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
    <if(parser.tokens)>
    public const int
    <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
    <endif>
    <if(parser.rules)>
    public const int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
    <endif>
    public static readonly string[] ruleNames = {
    <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };

```



```

<vocabulary(parser.literalNames, parser.symbolicNames)>

public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(parser.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new
DFA(_ATN.GetDecisionState(i), i);
    }
}

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <parser.sempredFuncs.values:{f}
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
    <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
    <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
    get

```

```

{
    return DefaultVocabulary;
}
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs)
::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values: {f}
    case <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
    separator="\n">
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values: {f}
    case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
    separator="\n">
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
public <csIdentifier.(parser.name)>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

public <csIdentifier.(parser.name)>(ITokenStream input, TextWriter output, TextWriter errorOutput)
: base(input, output, errorOutput)
{
    Interpreter = new ParserATNSimulator(this,
    _ATN, decisionToDFA, sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
    switch (actionIndex) {

```

```

<actions:{index|
case <index>: <actions.(index)> break; }; separator="\n">
}
}
>>

```

/\* This generates a private method since the predIndex is generated, making an  
\* overriding implementation impossible to maintain.

```

*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
switch (predIndex) {
<actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
}
return true;
}
}
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

[RuleVersion(<namedActions.version;
null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<csIdentifier.(currentRule.name)>(<args; separator=", "> {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
<if(exceptions)>
<exceptions; separator="\n">
<else>
catch (RecognitionException re) {

```

```

    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
}
<endif>
finally {
    <finallyAction>
    ExitRule();
}
return _localctx;
}
>>

```

```

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f>
}><else>private <endif><currentRule.ctxType> <csIdentifier.(currentRule.name)><(args; separator=", ">) {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>>);
EnterLeftFactoredRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
    int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
    _localctx.exception = re;
    ErrorHandler.ReportError(this, re);
    ErrorHandler.Recover(this, re);
}
finally {
    <finallyAction>
    ExitRule();
}
return _localctx;
}
>>

```

```

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.

```

```

LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=

```

<<

```
<if(currentRule.modifiers)><currentRule.modifiers: { f
| <f> }><else>private <endif><currentRule.ctxType> <csIdentifier.(currentRule.name)>(<args; separator=", ">) {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args: { a | ,
<csIdentifier.(a.name)>>});
EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>
}
catch (RecognitionException re) {
_localctx.exception = re;
ErrorHandler.ReportError(this, re);
ErrorHandler.Recover(this, re);
}
finally {
<finallyAction>
ExitRule();
}
return _localctx;
}
>>
```

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
namedActions,finallyAction,postamble) ::=
```

<<

```
<ruleCtx>
<altLabelCtxs: { l | <altLabelCtxs.(l)> }; separator="\n">
```

```
[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers: { f
| <f> }><else>public <endif><currentRule.ctxType> <csIdentifier.(currentRule.name)>(<args; separator=", ">) {
return <csIdentifier.(currentRule.name)>(0<currentRule.args: { a | , <csIdentifier.(a.name)>>});
}
}
```

```
private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args: { a | , <a> }>) {
ParserRuleContext _parentctx = Context;
int _parentState = State;
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args: { a | ,
<csIdentifier.(a.name)>>});
```

```

<currentRule.ctxType> _prevctx = _localctx;
int _startState = <currentRule.startState>;
EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
}
catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this,
re);
}
finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {

```

```

<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

```

```

LL1OptionalBlock(choice,
  alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
  <choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  State = <choice.loopBackStateNumber>;
  ErrorHandler.Sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {

```

```

<alts; separator="\n">
State = <choice.stateNumber>;<!
loopback/exit decision !>
ErrorHandler.Sync(this);
<iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
<alt>
break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER
) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
State = <choice.loopBackStateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}

```



>>

```
PlusBlock(choice, alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
break;}; separator="\n">
  default:
    <error>
  }
  State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
  ErrorHandler.Sync(this);
  _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>
```

```
Sync(s) ::= "Sync(<s.expecting.name>);"
```

```
ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator=" || ">
>>
```

```
// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ ttype | (1L \< <offsetShift(tokenType.(ttype), bits.shift)>)}); separator=" | ">) != 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]
```

```
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
```

```

%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ ttype | <s.varName>==<tokenType.(ttype)>} ; separator=" || ">
%>

cases(ttypes)
 ::= <<
<types:{ t | case <tokenType.(t)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif><csIdentifier.(r.name)><(if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><arg
ExprsChunks>;
>>

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif><(expr)> ) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
  ErrorHandler.ReportMatch(this);
  Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{1
| <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

```

```

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
    <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "Skip();"
LexerMoreCommand() ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar) ::= "_type = <tokenType.(arg)>";
LexerChannelCommand(arg, grammar) ::= "_channel = <channelName.(arg)>";
LexerModeCommand(arg, grammar) ::= "_mode = <modeName.(arg)>";
LexerPushModeCommand(arg, grammar) ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
LocalRef(a)
    ::= "_localctx.<csIdentifier.(a.name)>"
RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=

```

```

("<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t)
::= "<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
("<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
("<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r) ::=
("<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r) ::= "_localctx.Stop"
ThisRulePropertyRef_text(r) ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)
::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
<%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType() <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>);"
TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t) ::=
[System.Diagnostics.DebuggerNonUserCode]
public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<csIdentifier.(tokenType.(t.name))>() { return

```

```

GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
    return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>() {
    return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<csIdentifier.(r.name)>() {
    return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)
    ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>(int i) {
    return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,
    superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces>
separator=", "><endif>
{
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">

```

```

<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{ a | , <a>}>)
: base(parent, invokingState)
{
<struct.ctorAttrs:{ a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
}
public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
public <struct.name>() { }
public virtual void CopyFrom(<struct.name> context) {
base.CopyFrom(context);
<struct.attrs:{ a | this.<csIdentifier.(a.name)> = context.<csIdentifier.(a.name)>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name>
format="cap">Context {
<attrs:{ a | public <a>;}; separator="\n">
<getters:{ g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name>; format="cap">Context context) { CopyFrom(context); }
<dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName>;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override TResult Accept<TResult>(IParseTreeVisitor<TResult> visitor) {
I<parser.grammarName>Visitor<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor<TResult>;
if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName>; format="cap">(this);
else
return visitor.VisitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <csIdentifier.(d.name)><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)><endif><csIdentifier.(x.name)>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx,
_parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
    TriggerExitRuleEvent();
_prevctx = _localctx;
>>

```

```

LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <csIdentifier.(lexer.name)> : <superClass; null="Lexer"> {
protected static DFA[] decisionToDFA;
protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
<if(lexer.tokens)>
public const int
<lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.channels)>
public const int
<lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public
const int
<rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>

```



```

public static string[] channelNames = {
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| "<c>"}; separator=", ",
wrap, anchor><endif>
};

public static string[] modeNames = {
    <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
    <lexer.ruleNames:{r| "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <csIdentifier.(lexer.name)>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <csIdentifier.(lexer.name)>(ICharStream input, TextWriter output, TextWriter errorOutput)
: base(input, output, errorOutput)
{
    Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public
override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(lexer.name)>() {
    decisionToDFA = new DFA[_ATN.NumberOfDecisions];
    for (int i = 0; i < _ATN.NumberOfDecisions; i++) {
        decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
    }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

```

```
SerializedATN(model) ::= <<
private static char[] _serializedATN = {
    <model.serialized; separator=", ", wrap>,
};
```

```
public static readonly ATN _ATN =
    new ATNDeserializer().Deserialize(_serializedATN);
```

```
>>
```

```
initValue(typeName) ::= <<
default(<typeName>)
>>
```

```
codeFileExtension() ::= ".cs"
```

```
modeName ::= [
    "DEFAULT_MODE" : "DefaultMode",
    default : key
]
```

```
channelName ::= [
    "HIDDEN" : "Hidden",
    "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
    default
    : key
]
```

```
tokenType ::= [
    "EOF" : "Eof",
    default : key
]
```

```
csIdentifier ::= [
    "abstract" : "@abstract",
    "as" : "@as",
    "base" : "@base",
    "bool" : "@bool",
    "break" : "@break",
    "byte" : "@byte",
    "case" : "@case",
    "catch" : "@catch",
    "char" : "@char",
    "checked" : "@checked",
    "class" : "@class",
    "const" : "@const",
```

"continue" : "@continue",  
"decimal" : "@decimal",  
"default" : "@default",  
"delegate" : "@delegate",  
"do" : "@do",  
"double" : "@double",  
"else" : "@else",  
"enum" : "@enum",  
"event" : "@event",  
"explicit" : "@explicit",  
"extern" : "@extern",  
"false" : "@false",  
"finally" : "@finally",  
"fixed" : "@fixed",  
"float" : "@float",  
"for" : "@for",  
"foreach" : "@foreach",  
"goto" : "@goto",  
"if" : "@if",  
"implicit" : "@implicit",  
"in" : "@in",  
"int" : "@int",  
"interface" : "@interface",  
"internal" : "@internal",  
"is" : "@is",  
"lock" : "@lock",  
"long" : "@long",  
"namespace" : "@namespace",  
"new" : "@new",  
"null" : "@null",  
"object"  
: "@object",  
"operator" : "@operator",  
"out" : "@out",  
"override" : "@override",  
"params" : "@params",  
"private" : "@private",  
"protected" : "@protected",  
"public" : "@public",  
"readonly" : "@readonly",  
"ref" : "@ref",  
"return" : "@return",  
"sbyte" : "@sbyte",  
"sealed" : "@sealed",  
"short" : "@short",  
"sizeof" : "@sizeof",  
"stackalloc" : "@stackalloc",  
"static" : "@static",

```
"string" : "@string",
"struct" : "@struct",
"switch" : "@switch",
"this" : "@this",
"throw" : "@throw",
"true" : "@true",
"try" : "@try",
"typeof" : "@typeof",
"uint" : "@uint",
"ulong" : "@ulong",
"unchecked" : "@unchecked",
"unsafe" : "@unsafe",
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"values" : "@values",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```

Found in path(s):

```
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
```

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```
/*
```

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\*/

/\*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

\*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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*/
```

```
tree grammar ATNBuilder;
options {
    language    = Java;
    tokenVocab  = ANTLRParser;
    ASTLabelType = GrammarAST;
    // filter    = true;
}
```

```
// Include the copyright in this source and also the generated source
```

```
@header {
```

```
/*
```

```
[The "BSD license"]
```

```
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```
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```

```
*/
```

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
```

```

}

@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
: ^(BLOCK
    (^ (OPTIONS .*)?
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
    )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^ (OPTIONS .*)? (a=alternative {alts.add($a.p);})+
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands
    {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON)    {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);}+
    {
        $p = factory.alt(cmds);
    }
;

```

lexerCommand returns

```
[ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
  {$cmd = factory.lexerCommand($ID);}
;
```

lexerCommandExpr

```
: ID
| INT
;
```

element returns [ATNFactory.Handle p]

```
: labeledElement {$p = $labeledElement.p;}
| atom {$p = $atom.p;}
| subrule {$p = $subrule.p;}
| ACTION {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;
```

astOperand returns [ATNFactory.Handle p]

```
: atom {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;
```

labeledElement returns [ATNFactory.Handle p]

```
: ^(ASSIGN ID element) {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element)
  {$p = factory.listLabel($element.p);}
;
```

subrule returns [ATNFactory.Handle p]

```
: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null] {$p = $block.p;}
;
```

blockSet[boolean invert] returns [ATNFactory.Handle p]

```
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;
```



```

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

atom returns [ATNFactory.Handle p]
: range {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p
= $blockSet.p;}
| terminal {$p = $terminal.p;}
| ruleref {$p = $ruleref.p;}
;

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;

range returns [ATNFactory.Handle p]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;

terminal returns [ATNFactory.Handle p]
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID

```

```
ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g

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\*/

```
javaTypeInitMap ::= [
```

```
  "int": "0",
```

```
  "long": "0",
```

```
  "float": "0.0f",
```

```
  "double": "0.0",
```

```
  "boolean": "false",
```

```
  "byte": "0",
```

```

"short": "0",
"char": "0",
default: "null" // anything other than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

```

```

/**
 * This interface defines a complete listener for a parse tree produced by
 * { @link <file.parserName> }.
 */
public interface <file.grammarName>Listener extends ParseTreeListener {
    <file.listenerNames: {lname |
/**
    <if(file.listenerLabelRuleNames.(lname))>
    * Enter a parse tree produced by the { @code <lname>}
    * labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>} .
    <else>
    * Enter a parse tree produced by { @link <file.parserName>#<lname>} .
    <endif>
    * @param ctx the parse tree

```

```

*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the { @code <lname>\}
* labeled alternative in { @link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of { @link <file.grammarName>Listener },
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
<file.listenerNames:{lname |
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \} };
separator="\n">

/**

```

```

* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
* { @inheritDoc\}
*
* \<p>The default
implementation does nothing.\</p>
*/
@Override public void visitTerminal(TerminalNode node) { }
/**
* { @inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by { @link <file.parserName> }.
*
* @param \<T> The return type of the visit operation. Use { @link Void } for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
<file.visitorNames:{ Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
* Visit a parse tree produced by the { @code <Iname>}
* labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)>}|.

```

```

<else>
  * Visit a parse tree produced by { @link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n"
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of { @link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.
 *
 * @param \<T> The return type of the visit operation. Use { @link Void} for
 * operations with no return type.
 */
public class <file.grammarName>BaseVisitor<T> extends AbstractParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {
  <file.visitorNames:{ lname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default
 * implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
  @Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
  visitChildren(ctx); \} }; separator="\n"
  }
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

```

```

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
new PredictionContextCache();
<if(parser.tokens)>
public static final int
<parser.tokens:{k | <k>=<parser.tokens.(k)>};
separator=", ", wrap, anchor>;
<endif>
<if(parser.rules)>
public static final int
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>
private static String[] makeRuleNames() {
return new String[] {
<parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};
}
public static final String[] ruleNames = makeRuleNames();

<vocabulary(parser.literalNames, parser.symbolicNames)>

@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format="java-escape">"; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public ATN getATN() { return _ATN; }

<namedActions.members>
<parser:(ctor)()>
<funcs; separator="\n">

<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
switch (ruleIndex) {
<parser.sempredFuncs.values:{f}
case <f.ruleIndex>:

```

```

return
<f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
}
return true;
}
<sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
return new String[] {
<literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
return new String[] {
<symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
 * @deprecated Use {@link #VOCABULARY} instead.
 */
@Deprecated
public static final String[] tokenNames;
static {
tokenNames = new String[_SYMBOLIC_NAMES.length];
for (int i = 0; i < tokenNames.length; i++) {
tokenNames[i] = VOCABULARY.getLiteralName(i);
if (tokenNames[i]
== null) {
tokenNames[i] = VOCABULARY.getSymbolicName(i);
}

if (tokenNames[i] == null) {
tokenNames[i] = "<INVALID>";
}
}
}
}

```



```

@Override
@Deprecated
public String[] getTokenNames() {
    return tokenNames;
}

```

```

@Override

public Vocabulary getVocabulary() {
    return VOCABULARY;
}
>>

```

```

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
    switch (ruleIndex) {
        <recog.actionFuncs.values:{f}
    case <f.ruleIndex>:
        <f.name>_action((<f.ctxType>)_localctx, actionIndex);
        break;}; separator="\n"
    }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
    switch (ruleIndex) {
        <recog.sempredFuncs.values:{f}
    case <f.ruleIndex>:
        return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n"
    }
    return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

```

```

parser_ctor(p)
::= <<
public <p.name>(TokenStream input) {
    super(input);
    _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

```

```

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
switch (actionIndex) {
<actions:{index|
case <index>:
<actions.(index)>
break;}; separator="\n">
}
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
switch (predIndex) {
<actions:{index|
case <index>:
return <actions.(index)>;}; separator="\n">
}
return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(<args; separator=",">) throws RecognitionException {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>>);
enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
int _alt;
<endif>
<code>
<postamble; separator="\n">
<namedActions.after>

```

```

}
<if(exceptions)>
<exceptions; separator="\n">
<else>
catch (RecognitionException re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
}
<endif>
finally {
    <finallyAction>
    exitRule();
}
return _localctx;
}
>>

```

```

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble)
::=
<<

```

```

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

```

```

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f }><else>public final <endif><currentRule.ctxType>
<currentRule.name><(<args; separator=", ">) throws RecognitionException {
    return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}

```

```

private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
    ParserRuleContext _parentctx = _ctx;
    int _parentState = getState();
    <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
    <a.name>}>);
    <currentRule.ctxType> _prevctx = _localctx;
    int _startState = <currentRule.startState>;
    enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
    <if(currentRule.hasLookaheadBlock)>
        int _alt;
    <endif>
    <code>
    <postamble; separator="\n">
    <namedActions.after>

```

```

}
catch (RecognitionException
re) {
    _localctx.exception = re;
    _errHandler.reportError(this, re);
    _errHandler.recover(this, re);
}
finally {
    <finallyAction>
    unrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
<alt>
break;};
separator="\n">
default:
<error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);

```

```

switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  break;
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
  <alts; separator="\n">
  setState(<choice.loopBackStateNumber>);
  _errHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble;
separator="\n">
do {
  <alts; separator="\n">
  setState(<choice.stateNumber>); <! loopback/exit decision !>
  _errHandler.sync(this);
  <iteration>
} while ( <loopExpr> );
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);

```

```

_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{ alt |
case <i>:
<alt>
break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt>
&& _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
<iteration>
<alts> <! should only be one !>
}
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
switch ( _alt ) {
<alts:{ alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
<alt>
break;}; separator="\n">
}
}

```

```

default:
  <error>
}
setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s)
::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<ttype>};
separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <t>}; separator="\n">
>>

```

```

InvokeRule(r, argExprsChunks) ::= <<
  setState(<r.stateNumber>);
  <if(r.labels)><r.labels:{1 | <labelref(l)> =
  }><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
  );
  >>

```

```

MatchToken(m) ::= <<
  setState(<m.stateNumber>);
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>match(<m.name>);
  >>

```

```

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

```

```

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

```

```

CommonSetStuff(m, expr, capture, invert) ::= <<
  setState(<m.stateNumber>);
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }>_input.LT(1);<endif>
  <capture>
  if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr> ) ) {
    <if(m.labels)><m.labels:{1 | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
  }
  else {
    if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
    _errHandler.reportMatch(this);
    consume();
  }
  >>

```

```

Wildcard(w)
  ::= <<
  setState(<w.stateNumber>);
  <if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>matchWildcard();
  >>

```

```

// ACTION STUFF

```

```

Action(a, foo, chunks) ::= "<chunks>"

```

```

ArgAction(a, chunks) ::= "<chunks>"

```

```

SemPred(p, chunks, failChunks) ::= <<
  setState(<p.stateNumber>);
  if (!<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
  <failChunks><elseif(p.msg)>, <p.msg><endif>);
  >>

```



```

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip();"
LexerMoreCommand() ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar) ::= "_type = <arg>";
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>";
LexerModeCommand(arg, grammar) ::= "_mode = <arg>";
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::=
  "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>";

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0"
TokenPropertyRef_int(t)
  ::= "<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null"
RulePropertyRef_text(r) ::=
  "<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"

```

```

RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(<<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"(<<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>).<s.name>
= <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
"public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
"public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
public TerminalNode <t.name>(int i) {
return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <r.name>() {
return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public
List<<r.ctxName>> <r.name>() {
return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(int i) {
return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

```

```

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
 ::= <<
public static class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g
| <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>}) {
super(parent, invokingState);
<struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
super.copyFrom(ctx);
<struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
public <struct.name>(<currentRule.name;
format="cap">Context ctx) { copyFrom(ctx); }
<dispatchMethods; separator="\n">

```

```

}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
    if ( listener instanceof <parser.grammarName>Listener )
        ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
        format="cap">(this);
    }
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public <T> T accept(ParseTreeVisitor<? extends T> visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor<? extends
    T>)visitor).visit<struct.derivedFromName; format="cap">(this);
    else return visitor.visitChildren(this);
    }
}
>>

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>(<x.ctx.name>)_localctx.<endif><x.name>"

/** For any
    action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "(<actionChunk.ctx.name>)_localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>";
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
    _localctx = new <ctxName>Context(_parentctx, _parentState);
    <if(label)>
    <if(isListLabel)>
        _localctx.<label>.add(_prevctx);
    <else>
        _localctx.<label> = _prevctx;
    <endif>
    <endif>
    <if(label)>_localctx.<label> = _prevctx;<endif>
    pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
}
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
  _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
  _parentState));
  <if(label)>
  <if(isListLabel)>
  ((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
  <else>
  ((<currentAltLabel;
  format="cap">Context)_localctx).<label> = _prevctx;
  <endif>
  <endif>
  pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
  >>

```

```

recRuleReplaceContext(ctxName) ::= <<
  _localctx = new <ctxName>Context(_localctx);
  _ctx = _localctx;
  _prevctx = _localctx;
  >>

```

```

recRuleSetPrevCtx() ::= <<
  if ( _parseListeners!=null ) triggerExitRuleEvent();
  _prevctx = _localctx;
  >>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
  <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
  <if(lexerFile.genPackage)>
  package <lexerFile.genPackage>;
  <endif>
  <namedActions.header>
  import org.antlr.v4.runtime.Lexer;
  import org.antlr.v4.runtime.CharStream;
  import org.antlr.v4.runtime.Token;
  import org.antlr.v4.runtime.TokenStream;
  import org.antlr.v4.runtime.*;
  import org.antlr.v4.runtime.atn.*;
  import org.antlr.v4.runtime.dfa.DFA;
  import org.antlr.v4.runtime.misc.*;

  <lexer>
  >>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
  @SuppressWarnings({"all",
  "warnings", "unchecked", "unused", "cast"})
  public class <lexer.name> extends <superClass; null="Lexer"> {

```

```

static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

protected static final DFA[] _decisionToDFA;
protected static final PredictionContextCache _sharedContextCache =
    new PredictionContextCache();
<if(lexer.tokens)>
public static final int
    <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.channels)>
public static final int
    <lexer.channels:{c | <c>=<lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public static final int
    <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static String[] channelNames = {
    "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| "<c>"}; separator=", ",
wrap, anchor><endif>
};

public static String[] modeNames = {
    <lexer.modes:{m| "<m>"};
separator=", ", wrap, anchor>
};

private static String[] makeRuleNames() {
    return new String[] {
        <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
    };
}
public static final String[] ruleNames = makeRuleNames();

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

<namedActions.members>

public <lexer.name>(CharStream input) {
    super(input);
    _interp = new LexerATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

@Override
public String[] getRuleNames() { return ruleNames; }

```

```
@Override
public String getSerializedATN() { return _serializedATN; }
```

```
@Override
public String[] getChannelNames() { return channelNames; }
```

```
@Override
public String[] getModeNames() { return modeNames; }
```

```
@Override
public ATN getATN() { return _ATN; }
```

```
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>
```

```
SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires
segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
"<segment; wrap={ "+<\n><\t>" }>"; separator="\n">
public static final String _serializedATN = Utils.join(
new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
},
""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
"<model.serialized; wrap={ "+<\n><\t>" }>";
<endif>
public static final ATN _ATN =
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
_decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
_decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
}
<! org.antlr.v4.tool.DOTGenerator dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2],
ruleNames, false));!>
}
```

>>

```
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>
```

```
codeFileExtension() ::= ".java"
```

Found in path(s):

```
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
```

No license file was found, but licenses were detected in source scan.

```
/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
 * Copyright (c) 2012-2016 Sam Harwell
 * Copyright (c) 2014 Eric Vergnaud
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 * notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
 * 3. The name of the author may not be used to endorse or promote products
 * derived from this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
 * IMPLIED
 * WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */
```



```

/** ANTLR tool checks output templates are compatible with tool code generation.
 * For now, a simple string match used on x.y of x.y.z scheme.
 * Must match Tool.VERSION during load to templates.
 *
 * REQUIRED.
 */

```

```

javascriptTypeInitMap ::= [
  "bool":"false",
  "int":"0",
  "float":"0.0",
  "str":"",
  default:"{}" // anything
  other than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

```

```

  <file.listenerNames>: { Iname |
  // Enter a parse tree produced by <file.parserName>#<Iname>.
  enter<Iname>; format="cap">(ctx) {
  \}

```

```

  // Exit a parse tree produced by <file.parserName>#<Iname>.
  exit<Iname>;
  format="cap">(ctx) {
  \}

```

```
}; separator="\n">
```

```
}
```

```
>>
```

```
VisitorFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
import antlr4 from 'antlr4';
```

```
// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.
```

```
export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {
```

```
<file.visitorNames:{lname |
```

```
// Visit a parse tree produced by <file.parserName>#<lname>.
```

```
visit<lname; format="cap">(ctx) {
```

```
    return this.visitChildren(ctx);
```

```
}}
```

```
}; separator="\n">
```

```
}
```

```
>>
```

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<
```

```
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
```

```
// jshint ignore: start
```

```
>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
```

```
<if(superClass)>
```

```
import <superClass> from './<superClass>.js';
```

```
<endif>
```

```
<atn>
```

```
const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);
```

```
const decisionsToDFA = atn.decisionToState.map( (ds,  
index) => new antlr4.dfa.DFA(ds, index) );
```

```
const sharedContextCache = new antlr4.PredictionContextCache();
```

```
export default class <parser.name> extends <superClass; null="antlr4.Parser"> {
```

```

static grammarFileName = "<parser.grammarFileName; format='java-escape'>";
static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

constructor(input) {
    super(input);
    this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
    this.ruleNames = <parser.name>.ruleNames;
    this.literalNames = <parser.name>.literalNames;
    this.symbolicNames = <parser.name>.symbolicNames;
    <namedActions.members>
}

get atn() {
    return atn;
}

<if(sempredFuncs)>

sempred(localctx, ruleIndex, predIndex) {
    switch(ruleIndex) {
        <parser.sempredFuncs.values:{f | case <f.ruleIndex>:
            return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
        default:
            throw "No predicate with index:" + ruleIndex;
        }
    }
}

<sempredFuncs.values; separator="\n">
<endif>

<funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<if(parser.rules)>
<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
<endif>

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>

```

```
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; } separator="\n">
```

```
>>
```

```
ruleContexts(currentRule) ::= <<
```

```
<currentRule.ruleCtx>
```

```
<currentRule.altLabelCtxs:{l | <currentRule.altLabelCtxs.(l)>; } separator="\n">
```

```
>>
```

```
dumpActions(recog,
```

```
  argFuncs, actionFuncs, sempredFuncs) ::= <<
```

```
<if(actionFuncs)>
```

```
<lexer.name>.prototype.action = function(localctx, ruleIndex, actionIndex) {
```

```
  switch (ruleIndex) {
```

```
    <recog.actionFuncs.values:{f|
```

```
  case <f.ruleIndex>:
```

```
    this.<f.name>_action(localctx, actionIndex);
```

```
    break;}; separator="\n">
```

```
  default:
```

```
    throw "No registered action for:" + ruleIndex;
```

```
  }
```

```
};
```

```
<actionFuncs.values; separator="\n">
```

```
<endif>
```

```
<if(sempredFuncs)>
```

```
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
```

```
  switch (ruleIndex) {
```

```
    <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
```

```
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
```

```
  default:
```

```
    throw "No registered predicate for:" + ruleIndex;
```

```
  }
```

```
};
```

```
<sempredFuncs.values; separator="\n">
```

```
<endif>
```

```
>>
```

```
/* This generates a private method since the actionIndex is generated, making an
```

```
* overriding implementation impossible to maintain.
```

```
*/
```

```
RuleActionFunction(r, actions) ::= <<
```

```
<lexer.name>.prototype.<r.name>_action = function(localctx
```

```

, actionIndex) {
switch (actionIndex) {
<actions:{index|
case <index>:
<actions.(index)>
break;}; separator="\n">
default:
throw "No registered action for:" + actionIndex;
}
};
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/

```

```

RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
switch(predIndex) {
<actions:{index| case <index>:
return <actions.(index)>;}; separator="\n">
default:
throw "No predicate with index:" + predIndex;
}
};
>>

```

```

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

```

```

<currentRule.name><(currentRule.args:{a | <a.name>}; separator=", ">) {
let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
this.enterRule(localctx,
<currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
<namedActions.init>
<locals; separator="\n">
try {
<code>
<postamble; separator="\n">
<namedActions.after>
}<if(exceptions)>
<exceptions; separator="\n">
<else> catch (re) {
if(re instanceof antlr4.error.RecognitionException) {
localctx.exception = re;
this._errHandler.reportError(this, re);

```

```

        this._errHandler.recover(this, re);
    } else {
        throw re;
    }
} <endif> finally {
    <finallyAction>
    this.exitRule();
}
return localctx;
}
}
>>

```

```

LeftRecursiveRuleFunction(currentRule, args, code, locals, ruleCtx, altLabelCtxs,
    namedActions, finallyAction, postamble) ::=
<<

```

```

<currentRule.name>(_p<if(currentRule.args)>, <args:{ a | , <a> }><endif>) {
    if(_p===undefined) {
        _p = 0;
    }
    const _parentctx = this._ctx;
    const _parentState = this.state;
    let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{ a
| , <a.name> }>);
    let _prevctx = localctx;
    const _startState = <currentRule.startState>;
    this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
    <namedActions.init>
    <locals; separator="\n">
    try {
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    } catch( error) {
        if(error instanceof antlr4.error.RecognitionException) {
            localctx.exception = error;
            this._errHandler.reportError(this, error);
            this._errHandler.recover(this, error);
        } else {
            throw error;
        }
    } finally {
        <finallyAction>
        this.unrollRecursionContexts(_parentctx)
    }
    return localctx;
}
}

```

>>

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx,
  <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>
```

```
LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  break;}; separator="\n">
default:
  break;
}
>>
```

```
LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble;
```

```

separator="\n">
if(<expr>) {
  <alts; separator="\n">
}
<!else if ( !(<followExpr> ) <error!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
  <alts; separator="\n">
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  <iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
  <alts; separator="\n">
  this.state = <choice.stateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  <iteration>
} while(<loopExpr>);
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble;
separator="\n">
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

```



```

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice,
alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
  switch (_alt) {
    <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
break;}; separator="\n">
  default:
    <error>
  }
  this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );

>>

```

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"
```

```
TestSetInline(s) ::= <<
```

```
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,  
bits)><endif>}; separator=" || ">
```

```
>>
```

```
// Javascript language spec - shift operators are 32 bits long max
```

```
testShiftInRange(shiftAmount)
```

```
::= <<
```

```
((<shiftAmount>) & ~0x1f) == 0
```

```
>>
```

```
// produces smaller bytecode only when bits.ttypes contains more than two items
```

```
bitsetBitfieldComparison(s, bits) ::= <%
```

```
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 <\< <offsetShiftVar(s.varName,  
bits.shift)>) & (<bits.ttypes:{ttype | (1 <\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 0)  
%>
```

```
isZero ::= [
```

```
"0":true,
```

```
default:false
```

```
]
```

```
offsetShiftVar(shiftAmount, offset) ::= <%
```

```
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
```

```
%>
```

```
offsetShiftType(shiftAmount, offset) ::= <%
```

```
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
```

```
%>
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items
```

```
bitsetInlineComparison(s, bits) ::= <%
```

```
<bits.ttypes:{ttype | <s.varName>===<parser.name>.<ttype>}; separator=" || ">
```

```
%>
```

```
cases(ttypes) ::= <<
```

```
<ttypes:{t | case <parser.name>.<t>:}; separator="\n">
```

```
>>
```

```
InvokeRule(r,
```

```
argExprsChunks) ::= <<
```

```
this.state = <r.stateNumber>;
```

```
<if(r.labels)><r.labels:{l | <labelref(l)> =
```

```

nks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{1 | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
  this._errHandler.reportMatch(this);
  this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{1
| <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
  throw new antlr4.error.FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
  <catchAction>
}

```

```

}
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "this.skip()"
LexerMoreCommand() ::= "this.more()"
LexerPopModeCommand() ::= "this.popMode()"
LexerTypeCommand(arg, grammar) ::= "this._type = <arg>"
LexerChannelCommand(arg, grammar) ::= "this._channel = <arg>"
LexerModeCommand(arg, grammar) ::= "this._mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "this.pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a)
  ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "<ctx(t)>.<t.label>===null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> === null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t)
  ::= "<ctx(t)>.<t.label> === null ? 0 : parseInt(<ctx(t)>.<t.label>.text)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>===null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "<ctx(r)>.<r.label>===null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "this"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"

```

```

ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "this.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "this.getInvokingContext(<s.ruleIndex>).<s.name>
= <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType()>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType()> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType()>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
<t.name>() {
    return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
<t.name>_list() {
    return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
<t.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTokens(<parser.name>.<t.name>);
    } else {
        return this.getToken(<parser.name>.<t.name>, i);
    }
};
>>

ContextRuleGetterDecl(r)
::= <<
<r.name>() {
    return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

```

```

// should never be called
ContextRuleListGetterDecl(r) ::= <<
<r.name>_list() {
    return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = function(i) {
    if(i===undefined) {
        i = null;
    }
    if(i===null) {
        return this.getTypedRuleContexts(<r.ctxName>);
    } else {
        return this.getTypedRuleContext(<r.ctxName>,i);
    }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers)
::= <<
class <struct.name> extends <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

    constructor(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}> ) {
        if(parent===undefined) {
            parent = null;
        }
        if(invokingState===undefined || invokingState===null) {
            invokingState = -1;
        }
        super(parent, invokingState);

```

```

    this.parser = parser;
    this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
    <attrs:{ a | <a>; separator="\n">
    <struct.ctorAttrs:{ a | this.<a.name> = <a.name> || null;}; separator="\n">
  }

<getters:{ g | <g>; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{ a | this.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers;
separator="\n">

}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {

  constructor(parser, ctx) {
    super(parser);
    <attrs:{ a | <a>;}; separator="\n">
    super.copyFrom(ctx);
  }

  <getters:{ g | <g>; separator="\n\n">

  <dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.name>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
  if(listener instanceof <parser.grammarName>Listener ) {
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
  }
}
}

```

>>

```
VisitorDispatchMethod(method) ::= <<
accept(visitor) {
    if ( visitor instanceof <parser.grammarName>Visitor ) {
        return visitor.visit<struct.derivedFromName; format="cap">(this);
    } else {
        return visitor.visitChildren(this);
    }
}
}
```

>>

```
AttributeDecl(d) ::= "this.<d.name> = <if(d.initValue)><d.initValue><else>null<endif>"
```

```
/** If we don't know location of label def x, use this template */
```

```
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "localctx"
```

```
// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec) ::= "this.precpred(this._ctx, <opPrec>)"
```

```
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>"
```

```
recRuleSetStopToken() ::= "this._ctx.stop = this._input.LT(-1);"
```

```
recRuleAltStartAction(ruleName, ctxName, label) ::= <<
```

```
localctx = new <ctxName>Context(this, _parentctx, _parentState);
```

```
<if(label)>localctx.<label> = _prevctx;<endif>
```

```
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
```

>>

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
```

```
localctx = new <currentAltLabel; format="cap">Context(this,
```

```
new <ruleName; format="cap">Context(this, _parentctx, _parentState));
```

```
<if(label)>
```

```
<if(isListLabel)>
```

```
localctx.<label>.push(_prevctx);
```

```
<else>
```

```
localctx.<label> = _prevctx;
```

```
<endif>
```

```
<endif>
```

```
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
```

>>

```
recRuleReplaceContext(ctxName) ::= <<
```

```
localctx = new <ctxName>Context(this, localctx);
```



```

this._ctx = localctx;
_prevctx = localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
    this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

```

```

<namedActions.header>

```

```

<lexer>

```

```

>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<

```

```

<if(superClass)>

```

```

import <superClass> from './<superClass>.js';

```

```

<endif>

```

```

<atn>

```

```

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

```

```

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
index) );

```

```

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif> {

```

```

    static grammarFileName = "<lexer.grammarFileName>";

```

```

    static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN" <if (lexer.channels)>,

```

```

<lexer.channels:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];

```

```

    static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];

```

```

    static literalNames = [ <lexer.literalNames:{t| <t>}; null="null", separator=", ", wrap, anchor> ];

```

```

    static symbolicNames = [ <lexer.symbolicNames:{t| <t>}; null="null", separator=", ", wrap, anchor> ];

```

```

    static ruleNames = [ <lexer.ruleNames:{r| "<r>"}; separator=", ", wrap, anchor> ];

```

```

    constructor(input) {

```

```

        super(input)

```

```

        this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());

```

```

    <namedActions.members>
  }

  get atn() {
    return atn;
  }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens:{k
| <lexer.name>.<k> = <lexer.tokens.(k)>; separator="\n", wrap, anchor>
<endif>

<if(lexer.channels)>
<lexer.channels:{c| <lexer.name>.<c> = <lexer.channels.(c)>; separator="\n">

<endif>
<if(rest(lexer.modes))>
<rest(lexer.modes){m| <lexer.name>.<m> = <i>; separator="\n">

<endif>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

const serializedATN = ["<model.serialized; wrap={",<\n>  "}>"].join("");

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<javacriptTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".js"

Found in path(s):
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg

```

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```
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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
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 */
```

```
/** How to generate rules derived from left-recursive rules.
 * These rely on recRuleAltPredicate(),
 * recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
 * templates in main language.stg
 */
```

```
group LeftRecursiveRules;
```

```
recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
        userRetvals, leftRecursiveRuleRefLabels) ::=
```

```
<<
```

```
<ruleName><if(userRetvals)>
```

```
returns [<userRetvals>]<endif>
```

```
: ( { } <primaryAlts: { alt | <alt.altText> }; separator="\n    | ">
```

```
)
```

```
(
```

```
    <opAlts; separator="\n    | ">
  )*
;
>>
```

```
recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?{\<precOption>=<opPrec>}\> <alt.altText>
>>
```

Found in path(s):

```
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
```

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/*
```

```
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```

```
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```

```
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
*/
```

```
/*
```

```
This file contains the actual layout of the messages emitted by ANTLR.
```

```
This file contains the default format ANTLR uses.
```

```
*/
```

```
location(file, line, column) ::= "<file>:<line>:<column>:"
```

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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\*/

/\*\* The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.

\* Parses trees created by ANTLRParser.g.

\*

\* Rather than have multiple tree grammars, one for each visit, I'm

\* creating this generic visitor that knows about context. All of the

\* boilerplate pattern recognition is done here. Then, subclasses can

```

* override the methods they care about.
This prevents a lot of the same
* context tracking stuff like "set current alternative for current
* rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
language    = Java;
tokenVocab  = ANTLRParser;
ASTLabelType = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
[The "BSD license"]
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```

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```

*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;

```

```

import java.lang.reflect.Method;
}

@members
{
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if
        ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

```

```

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
ActionAST arg, ActionAST returns, GrammarAST thrws,
GrammarAST options, ActionAST locals,
List<GrammarAST> actions,
GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST
valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }

```



protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }

protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }

protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST  
tree) { }

protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }

protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }

protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }

protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }

protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }

protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }

protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }

protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }

protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }

protected void exitMode(GrammarAST tree) { }

protected

void enterLexerRule(GrammarAST tree) { }

protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }

protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }

protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }

protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }

protected void exitFinallyClause(GrammarAST tree) { }

protected void enterLocals(GrammarAST tree) { }

protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }

protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }

protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }

protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }

protected

void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }

protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }

protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }

protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }

protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }

protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }

protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }

protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }

protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }

```
protected
void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected
void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }
```

```

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected
void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {
    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

prequelConstructs returns [GrammarAST firstOne=null]

```

```

@init {
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

```

```

prequelConstruct
@init
{
  enterPrequelConstructs($start);
}
@after {
  exitPrequelConstructs($start);
}
: optionsSpec
  | delegateGrammars
  | tokensSpec
  | channelsSpec
  | action
;

```

```

optionsSpec
@init {
  enterOptionsSpec($start);
}
@after {
  exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

```

```

option
@init {
  enterOption($start);
  boolean rule = inContext("RULE ...");
  boolean block = inContext("BLOCK ...");
}
@after {
  exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
  if ( block ) blockOption($ID, $v.start); // most specific first
  else if ( rule ) ruleOption($ID, $v.start);
}

```

```
    else grammarOption($ID, $v.start);
  }
;
```

optionValue returns [String v]

```
@init {
  enterOptionValue($start);
  $v = $start.token.getText();
}
@after {
  exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;
```

delegateGrammars

```
@init {
  enterDelegateGrammars($start);
}
@after {
  exitDelegateGrammars($start);
}
: ^(IMPORT
delegateGrammar+)
;
```

delegateGrammar

```
@init {
  enterDelegateGrammar($start);
}
@after {
  exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
| id=ID {importGrammar(null, $id);}
;
```

tokensSpec

```
@init {
  enterTokensSpec($start);
}
@after {
  exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
;
```

```

tokenSpec
@init {
  enterTokenSpec($start);
}
@after {
  exitTokenSpec($start);
}
: ID {defineToken($ID);}
;

```

```

channelsSpec
@init {
  enterChannelsSpec($start);
}
@after {
  exitChannelsSpec($start);
}
: ^(CHANNELS channelSpec+)
;

```

```

channelSpec
@init {
  enterChannelSpec($start);
}
@after {
  exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;

```

```

action
@init {
  enterAction($start);
}
@after {
  exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

```

```

rules
@init {
  enterRules($start);
}
@after {
  exitRules($start);
}

```

```

: ^(RULES {discoverRules($RULES);} (rule|lexerRule)*
{finishRules($RULES);})
;

mode
@init {
enterMode($start);
}
@after {
exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
enterLexerRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
currentOuterAltNumber=0;
}
@after {
exitLexerRule($start);
}
: ^( RULE TOKEN_REF
{currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
(^ (RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
{discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
lexerRuleBlock
{
finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
currentRuleName=null; currentRuleAST=null;
}
)
;

rule
@init {
enterRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
currentOuterAltNumber=0;
}
@after {
exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text;
currentRuleAST=$RULE;}
(^ (RULEMODIFIERS (m=ruleModifier {mods.add($m.start);}+))?)?

```



```

ARG_ACTION?
  ret=ruleReturns?
  thr=throwsSpec?
  loc=locals?
  ( opts=optionsSpec
  | a=ruleAction { actions.add($a.start);}
  )*
  {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
    $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
    $thr.start, $opts.start,
    $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
    actions, (GrammarAST)input.LT(1));}
  ruleBlock exceptionGroup
  {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
  )
;

exceptionGroup
@init {
  enterExceptionGroup($start);
}
@after {
  exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
  enterExceptionHandler($start);
}
@after {
  exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION,
(ActionAST)$ACTION);}
;

finallyClause
@init {
  enterFinallyClause($start);
}
@after {
  exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

```

```
locals
@init {
  enterLocals($start);
}
@after {
  exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;
```

```
ruleReturns
@init {
  enterRuleReturns($start);
}
@after {
  exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;
```

```
throwsSpec
@init {
  enterThrowsSpec($start);
}
@after {
  exitThrowsSpec($start);
}
: ^(THROWS ID+)
;
```

```
ruleAction
@init {
  enterRuleAction($start);
}
@after {
  exitRuleAction($start);
}
: ^(AT ID ACTION)
;
```

```
ruleModifier
@init {
  enterRuleModifier($start);
}
@after {
  exitRuleModifier($start);
}
: PUBLIC
```

```
| PRIVATE
| PROTECTED
| FRAGMENT
;
```

lexerRuleBlock

```
@init {
  enterLexerRuleBlock($start);
}
@after {
  exitLexerRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  lexerOuterAlternative
  )+
  )
;
```

ruleBlock

```
@init {
  enterRuleBlock($start);
}
@after {
  exitRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  outerAlternative
  )+
  )
;
```

lexerOuterAlternative

```
@init {
  enterLexerOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitLexerOuterAlternative((AltAST)$start);
}
```

```
: lexerAlternative
```

```
;
```

```
outerAlternative
```

```
@init {
```

```
  enterOuterAlternative((AltAST)$start);
```

```
  discoverOuterAlt((AltAST)$start);
```

```
}
```

```
@after {
```

```
  finishOuterAlt((AltAST)$start);
```

```
  exitOuterAlternative((AltAST)$start);
```

```
}
```

```
: alternative
```

```
;
```

```
lexerAlternative
```

```
@init {
```

```
  enterLexerAlternative($start);
```

```
}
```

```
@after {
```

```
  exitLexerAlternative($start);
```

```
}
```

```
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
```

```
  | lexerElements
```

```
;
```

```
lexerElements
```

```
@init {
```

```
  enterLexerElements($start);
```

```
}
```

```
@after {
```

```
  exitLexerElements($start);
```

```
}
```

```
: ^(ALT lexerElement+)
```

```
;
```

```
lexerElement
```

```
@init {
```

```
  enterLexerElement($start);
```

```
}
```

```
@after {
```

```
  exitLexerElement($start);
```

```
}
```

```
: labeledLexerElement
```

```
  | lexerAtom
```

```
  | lexerSubrule
```

```
  | ACTION {actionInAlt((ActionAST)$ACTION);}
```

```

| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

```

labeledLexerElement

```

@init {
  enterLabeledLexerElement($start);
}
@after {
  exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;

```

lexerBlock

```

@init {
  enterLexerBlock($start);
}
@after {
  exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;

```

lexerAtom

```

@init {
  enterLexerAtom($start);
}
@after {
  exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;

```

actionElement

```

@init {
  enterActionElement($start);
}
@after

```

```

{
  exitActionElement($start);
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;

```

alternative

```

@init {
  enterAlternative((AltAST)$start);
  discoverAlt((AltAST)$start);
}
@after {
  finishAlt((AltAST)$start);
  exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;

```

lexerCommand

```

@init {
  enterLexerCommand($start);
}
@after {
  exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
  {lexerCommand(currentOuterAltNumber, $ID);}
;

```

lexerCommandExpr

```

@init {
  enterLexerCommandExpr($start);
}
@after {
  exitLexerCommandExpr($start);
}
: ID
| INT
;

```

element

```

@init {

```

```

enterElement($start);
}
@after {
exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
|
| ^ (ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^ (SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| range
| ^ (NOT blockSet)
| ^ (NOT block)
;

astOperand
@init {
enterAstOperand($start);
}
@after {
exitAstOperand($start);
}
: atom
| ^ (NOT blockSet)
| ^ (NOT block)
;

labeledElement
@init {
enterLabeledElement($start);
}
@after {
exitLabeledElement($start);
}
: ^ ((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

subrule
@init {
enterSubrule($start);
}
@after {
exitSubrule($start);
}
: ^ (blockSuffix block)

```

```

| block
;

lexerSubrule
@init {
  enterLexerSubrule($start);
}
@after {
  exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;

blockSuffix
@init {
  enterBlockSuffix($start);
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
;

ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {
  exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

atom
@init {
  enterAtom($start);
}
@after
{
  exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}

```



```

| terminal
| blockSet
| ruleref
;

blockSet
@init {
enterBlockSet($start);
}
@after {
exitBlockSet($start);
}
: ^(SET setElement+)
;

setElement
@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
stringRef((TerminalAST)$a);
stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

block
@init {
enterBlock($start);
}
@after {
exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION?
alternative+)
;

ruleref
@init {
enterRuleref($start);
}

```

```

}
@after {
  exitRuleRef($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
  ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
  if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

range
@init {
  enterRange($start);
}
@after {
  exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
  enterTerminal($start);
}
@after {
  exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
  {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
  enterElementOptions($start);
}
@after {
  exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
  enterElementOption($start);
}

```

```

}
@after
{
exitElementOption($start);
}
: ID    {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;

```

Found in path(s):

```
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/parse/GrammarTreeVisitor.g
```

No license file was found, but licenses were detected in source scan.

```

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```

```

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\*/

Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/GraphicsSupport.java

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Found in path(s):

\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ANTLRParser.g

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*/

```

```

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other
  than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
  from typing import TextIO

```

```

else:
    from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

    <file.listenerNames>: {Iname |
# Enter a parse tree produced by <file.parserName>#<Iname>.
def enter<Iname; format="cap">(self, ctx:<file.parserName>.<Iname;
format="cap">Context):
    pass

# Exit a parse tree produced by <file.parserName>#<Iname>.
def exit<Iname; format="cap">(self, ctx:<file.parserName>.<Iname; format="cap">Context):
    pass

}; separator="\n">

del <file.parserName>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if __name__ is not None and "." in __name__:
    from .<file.parserName> import <file.parserName>
else:
    from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

```

```

    <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
    return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>

fileHeader(grammarFileName, ANTLRVersion)
::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

    grammarFileName = "<parser.grammarFileName>"

    atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

    sharedContextCache = PredictionContextCache()

    literalNames = [ <parser.literalNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor> ]

    symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor> ]

    <if(parser.rules)>
    <parser.rules:{r | RULE_<r.name>

```

```

= <r.index>}; separator="\n", wrap, anchor>
<endif>

ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

EOF = <TokenLabelType().EOF
<if(parser.tokens)>
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<parser:(ctor())>

<namedActions.members>

<funcs; separator="\n">

<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates == None:
        self._predicates = dict()
<parser.sempredFuncs.values:{f |
    self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n    ">
    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<sempredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def
action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f]
    actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
    self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)

```



```

else:
    raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
    <recog.sempredFuncs.values:{f}
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values;
separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
    if actionIndex == <index>:
        <actions.(index)>
<elseif(rest(actions))>
    elif actionIndex == <index>:
        <actions.(index)>
<endif> }; separator="\n">
>>

```

```

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self,
localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
    return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
    return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>))
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:

  localctx.exception = re
    self._errHandler.reportError(self, re)
    self._errHandler.recover(self, re)
  <endif>
  finally:
    <finallyAction>
    self.exitRule()
  return localctx

```

>>

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,  
namedActions,finallyAction,postamble) ::=
```

<<

```
<ruleCtx>
```

```
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
```

```
def <currentRule.name>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):  
  _parentctx = self._ctx  
  _parentState = self.state  
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)  
  _prevctx = localctx  
  _startState = <currentRule.startState>  
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)  
  <namedActions.init>  
  <locals; separator="\n">  
  try:  
    <code>  
    <postamble; separator="\n">  
    <namedActions.after>  
  except RecognitionException as re:  
    localctx.exception = re  
    self._errHandler.reportError(self, re)  
    self._errHandler.recover(self, re)  
  finally:  
    <finallyAction>  
    self.unrollRecursionContexts(_parentctx)  
  return localctx
```

>>

```
CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<  
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel>;  
format="cap">Context(self, localctx)<endif>  
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)  
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
```

>>

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
```

```
<locals; separator="\n">  
<preamble; separator="\n">  
<ops; separator="\n">
```

>>

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
```

```

self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt|
  <cases(ttypes=look)>
    <alt>
      pass }; separator="\n"|>
else:
  <error>

>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
    pass }; separator="\n"|>
else:
  pass
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr> ) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state
= <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
    <alts; separator="\n">
    self.state = <choice.stateNumber> <! loopback/exit decision !>
    self._errHandler.sync(self)
    <iteration>
    if not (<loopExpr>):
        break
>>

```

```
// LL(*) stuff
```

```

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
    <alt>
    pass
}; separator="\nel">
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
}; separator="\nel">
>>

```

```

StarBlock(choice, alts, sync, iteration) ::=
<<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:

```

```

if _alt==1<if(!choice.ast.greedy)>+1<endif>:
  <iteration>
  <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

```

```

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

```

```

Sync(s)
::= "sync(<s.expecting.name>)"

```

```

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

```

```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<< <offsetShiftType(ttype, bits.shift)>)); separator=" | ">)) != 0
%>

```

```

isZero ::= [

```

```

"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount,
offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes: { ttype | <s.varName>==<parser.name>.<ttype> }; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes: { t | <parser.name>.<t> }; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels: { l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels: { l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::=
<<
self.state = <m.stateNumber>
<if(m.labels)><m.labels: { l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels: { l | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
self._errHandler.reportMatch(self)
self.consume()

```

```

>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
    <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()
    ::= "skip()"
LexerMoreCommand() ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)    ::= "_type = <arg>"
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)   ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"

```



```

SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t)
  ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r)
  ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):
    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never
// be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):

```

```

    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i:int=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r) ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r) ::= <<
def <r.name>(self, i:int=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

```

```

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
  __slots__ = 'parser'

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{ a | ,
<a.name><if(a.type)><a.type><endif>=None }>):
    super().__init__(parent, invokingState)
    self.parser = parser
    <attrs:{ a | <a>}; separator="\n">
    <struct.ctorAttrs:{ a | self.<a.name> = <a.name>}; separator="\n">

    <getters:{ g | <g>}; separator="\n\n">

    def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

    <if(struct.provideCopyFrom)>
    <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx:ParserRuleContext):
      super().copyFrom(ctx)
      <struct.attrs:{ a | self.<a.name> = ctx.<a.name>}; separator="\n">

    <endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
    super().__init__(parser)
    <attrs:{ a | <a>}; separator="\n">
    self.copyFrom(ctx)

    <getters:{ g | <g>}; separator="\n">

    <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">" ):
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

```

>>

```
VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
    return visitor.visitChildren(self)
```

>>

```
AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"
```

```
/** If we don't know location of label def x, use this template */
```

```
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"
```

```
/** For any action chunk, what is correctly-typed context struct ptr? */
```

```
ctx(actionChunk) ::= "localctx"
```

```
// used for left-recursive rules
```

```
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
```

```
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
```

```
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"
```

```
recRuleAltStartAction(ruleName,
```

```
  ctxName, label) ::= <<
```

```
  localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
```

```
  <if(label)>localctx.<label> = _prevctx<endif>
```

```
  self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
```

```
>>
```

```
recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
```

```
  localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
```

```
  format="cap">Context(self, _parentctx, _parentState))
```

```
  <if(label)>
```

```
  <if(isListLabel)>
```

```
  localctx.<label>.append(_prevctx)
```

```
  <else>
```

```
  localctx.<label> = _prevctx
```

```
  <endif>
```

```
  <endif>
```

```
  self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
```

```
>>
```

```
recRuleReplaceContext(ctxName) ::= <<
```

```
  localctx = <parser.name>.<ctxName>Context(self, localctx)
```

```
  self._ctx = localctx
```

```
_prevctx = localctx
```

```
>>
```

```
recRuleSetPrevCtx() ::= <<
```

```
if self._parseListeners is not None:
```

```
    self.triggerExitRuleEvent()
```

```
_prevctx = localctx
```

```
>>
```

```
LexerFile(lexerFile, lexer, namedActions) ::= <<
```

```
<fileHeader(lexerFile.grammarFileName,
```

```
lexerFile.ANTLRVersion)>
```

```
from antlr4 import *
```

```
from io import StringIO
```

```
import sys
```

```
if sys.version_info[1] > 5:
```

```
    from typing import TextIO
```

```
else:
```

```
    from typing.io import TextIO
```

```
<namedActions.header>
```

```
<lexer>
```

```
>>
```

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
```

```
<if(superClass)>
```

```
if __name__ is not None and "." in __name__:
```

```
    from .<superClass> import <superClass>
```

```
else:
```

```
    from <superClass> import <superClass>
```

```
<endif>
```

```
<atn>
```

```
class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):
```

```
    atn = ATNDeserializer().deserialize(serializedATN())
```

```
    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]
```

```
<if(lexer.channels)>
```

```
    <lexer.channels: {c| <c> = <lexer.channels.(c)>}; separator="\n">
```

```
<endif>
```

```
<if(rest(lexer.modes))>
```

```
    <rest(lexer.modes): {m| <m> = <i>}; separator="\n">
```

```

<endif>
  <if(lexer.tokens)>
    <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  channelNames
= [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c| u"<c>"};
separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ "\<INVALID>",
    <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ "\<INVALID>",
    <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = "<lexer.grammarFileName>"

  def __init__(self, input=None, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<lexerFile.ANTLRVersion>")
    self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
    self._actions = None
    self._predicates = None

  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model)
::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
    buf.write("<model.serialized; wrap={}<\n>    buf.write(">")")
    return buf.getvalue()

>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".

```

```
*/
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>
```

```
codeFileExtension() ::= ".py"
```

Found in path(s):

```
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
```

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* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
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*/
```

```
/** templates used to generate make-compatible dependencies */
```

```
/** Generate "f : x, y, z" dependencies for input
```

```
* dependencies and generated files. in and out
```

```
* are File objects. For example, you can say
```

```

* <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}>;
separator="\n">
>>

```

Found in path(s):

```

* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/depend.stg
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*/

```

```

/** Find left-recursive rules */

```

```

tree grammar LeftRecursiveRuleWalker;

```

```

options {
tokenVocab=ANTLRParser;

```



```

    ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public
int numAlts; // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
^(RETURNS a=ARG_ACTION {setReturnValues($a);})?
// (^(THROWS .+)) ? don't allow
(^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
(^(OPTIONS .*)
| ^(AT ID ACTION) // TODO: copy
)*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec; }
exceptionGroup
)
;

```

```

exceptionGroup
  : exceptionHandler* finallyClause?
  ;

exceptionHandler
  : ^(CATCH ARG_ACTION ACTION)
  ;

finallyClause
  : ^(FINALLY ACTION)
  ;

ruleModifier
  : PUBLIC
  | PRIVATE
  | PROTECTED
  ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
  (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
  )+
  )
  ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
  : (binary)=>      binary
      {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  | (prefix)=>     prefix
      {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  | (suffix)=>    suffix
      {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  | nonLeftRecur  {otherAlt((AltAST)$start, currentOuterAltNumber);}
  ;

binary
  : ^(
  ALT elementOptions? recurse element* recurse epsilonElement* )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
  ;

prefix
  : ^( ALT elementOptions?

```

```

element+
recurse epsilonElement*
)
    {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
    {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL    {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF         {$t = $c;}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

element
: atom
| ^(NOT element)

```

```
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;
```

```
epsilonElement
: ACTION
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;
```

```
setElement
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;
```

```
ebnf: block
| ^( OPTIONAL block )
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

```
block
: ^(BLOCK ACTION? alternative+)
;
```

```
alternative
: ^(ALT elementOptions? element+)
;
```

```
atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

\*

/opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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\* /opt/cola/permits/1310287415\_1650320530.75/0/antlr4-4-9-2-sources-1-jar/META-INF/maven/org.antlr/antlr4/pom.xml

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\*/

/\*\* ANTLR tool checks output templates are compatible with tool code generation.

\* For now, a simple string match used on x.y of x.y.z scheme.

```

* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```

```

pythonTypeInitMap ::= [
  "bool":"False",
  "int":"0",
  "float":"0.0",
  "str": "",
  default:"None" // anything other
  than a primitive type is an object
]

```

```

// args must be <object-model-object>, <fields-resulting-in-STs>

```

```

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

```

```

<namedActions.header>
<parser>

```

```

>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

```

```

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

```

```

    <file.listenerNames>: { lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname>(self, ctx):
    pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname>(self, ctx):
    pass

}; separator="\n">

```

>>

```
VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
file.ANTLRVersion)>
from antlr4 import *
<header>
```

```
# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.
```

```
class <file.grammarName>Visitor(ParseTreeVisitor):
```

```
    <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
    return self.visitChildren(ctx)

}; separator="\n">
```

>>

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

<endif>
<atn>
```

```
class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):
```

```
    grammarFileName = "<parser.grammarFileName>"
```

```
    atn = ATNDeserializer().deserialize(serializedATN())
```

```

decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

sharedContextCache = PredictionContextCache()

literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"<INVALID>\\"", separator=", ", wrap, anchor> ]

symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"<INVALID>\\"", separator=", ", wrap, anchor> ]

<if(parser.rules)>
<parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
<endif>

ruleNames = [ <parser.ruleNames:{r | u"<r">}; separator=", ", wrap, anchor> ]

EOF = <TokenLabelType().EOF
<if(parser.tokens)>
<parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

<parser:(ctor())>

<namedActions.members>

<funcs; separator="\n">

<if(semPredFuncs)>
def semPred(self, localctx, ruleIndex, predIndex):
    if self._predicates == None:
        self._predicates = dict()
<parser.semPredFuncs.values:{ f
|
    self._predicates[<f.ruleIndex>] = self.<f.name>_semPred}; separator="\n    ">
    pred = self._predicates.get(ruleIndex, None)
    if pred is None:
        raise Exception("No predicate with index:" + str(ruleIndex))
    else:
        return pred(localctx, predIndex)

<semPredFuncs.values; separator="\n">
<endif>

>>

dumpActions(recog, argFuncs, actionFuncs, semPredFuncs) ::= <<
<if(actionFuncs)>

```



```

def action(self, localctx, ruleIndex, actionIndex):
    if self._actions is None:
        actions = dict()
    <recog.actionFuncs.values: {f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

    <actionFuncs.values; separator="\n">

    <endif>
    <if( sempredFuncs)>
    def sempred(self, localctx, ruleIndex, predIndex):
        if self._predicates is None:
            preds = dict()
        <recog.sempredFuncs.values: {f|
            preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
            self._predicates = preds
        pred = self._predicates.get(ruleIndex, None)
        if pred is not None:
            return pred(localctx, predIndex)
        else:
            raise Exception("No registered predicate for:" + str(ruleIndex))

        <sempredFuncs.values; separator="\n">
    <endif>
    >>

    parser_ctor(p) ::= <<
    def __init__(self, input, output=sys.stdout):
        super(<parser.name>, self).__init__(input, output=output)
        self.checkVersion("<file.ANTLRVersion>")
        self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
        self._predicates = None

    >>

    /* This generates a private method since the actionIndex is generated, making an
    * overriding implementation impossible to maintain.
    */
    RuleActionFunction(r, actions) ::= <<

    def <r.name>_action(self, localctx , actionIndex):
    <actions: {index|

```

```

<if(first(actions))>
  if actionIndex == <index>:
    <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
    <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
    return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
    return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self<currentRule.args:{a | , <a.name>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
    <code>
    <postamble; separator="\n">
    <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
    localctx.exception = re
    self._errHandler.reportError(self, re)

```

```

        self._errHandler.recover(self, re)
    <endif>
    finally:
        <finallyAction>
        self.exitRule()
    return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
    namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.name>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
    _parentctx = self._ctx
    _parentState = self.state
    localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.name>}>)
    _prevctx
= localctx
    _startState = <currentRule.startState>
    self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
    <namedActions.init>
    <locals; separator="\n">
    try:
        <code>
        <postamble; separator="\n">
        <namedActions.after>
    except RecognitionException as re:
        localctx.exception = re
        self._errHandler.reportError(self, re)
        self._errHandler.recover(self, re)
    finally:
        <finallyAction>
        self.unrollRecursionContexts(_parentctx)
    return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel>;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals,
  preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\n1">
else:
  <error>

>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(ttypes=look)>
  <alt>
  pass}; separator="\n1">
else:
  pass

>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr> ) ) <error>!>

>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble,
  iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">

```

```

while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
    break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

>>

OptionalBlock(choice,
alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{ alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

```

>>

```
StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
    <iteration>
    <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

>>

```
PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt>
and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts: {alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
    <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
```

>>

```
Sync(s) ::= "sync(<s.expecting.name>)"
```

```
ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"
```

```
TestSetInline(s) ::= <<
<s.bitsets: {bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>} ; separator=" or ">
>>
```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test

```
testShiftInRange(shiftAmount) ::= <<
```

```
((<shiftAmount>) & ~0x3f) == 0
```

>>

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})>
and ((1 \<< <offsetShiftVar(s.varName, bits.shift)>) & (<bits.ttypes: {ttype | (1 \<< <offsetShiftType(ttype,
bits.shift)>)}; separator=" | ">)) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><shiftAmount> - <offset><else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))><parser.name>.<shiftAmount> - <offset><else><parser.name>.<shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes: {ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<
if token in [<ttypes: {t | <parser.name>.<t>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels: {l | <labelref(l)> =
}><endif>self.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>)
>>

MatchToken(m)
::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels: {l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>

```

```

<if(m.labels)><m.labels:{1 | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{1 | <labelref(l)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
    self.consume()
>>

```

```

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(l)> = }><endif>self.matchWildcard()
>>

```

```
// ACTION STUFF
```

```
Action(a, foo, chunks) ::= "<chunks>"
```

```
ArgAction(a, chunks) ::= "<chunks>"
```

```

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
    from antlr4.error.Errors import FailedPredicateException
    raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

```

```

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
    <catchAction>
>>

```

```
// lexer actions are not associated with model objects
```

```
LexerSkipCommand() ::= "skip()"
```

```
LexerMoreCommand() ::= "more()"
```

```
LexerPopModeCommand() ::= "popMode()"
```

```
LexerTypeCommand(arg, grammar) ::= "_type = <arg>"
```

```
LexerChannelCommand(arg, grammar) ::= "_channel = <arg>"
```

```
LexerModeCommand(arg, grammar) ::= "_mode = <arg>"
```

```
LexerPushModeCommand(arg, grammar) ::= "pushMode(<arg>)"
```

```
ActionText(t) ::= "<t.text>"
```

```
ActionTemplate(t) ::= "<t.st>"
```

```
ArgRef(a) ::= "localctx.<a.name>"
```

```
LocalRef(a) ::= "localctx.<a.name>"
```



```

RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t)
 ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
 ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r) ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r) ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r) ::= "localctx.stop"
ThisRulePropertyRef_text(r) ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "localctx"
ThisRulePropertyRef_parser(r) ::= "self"

NonLocalAttrRef(s) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.name> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
TokenListDecl(t)
 ::= "self.<t.name> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t) ::= <<
def <t.name>(self):

```

```

    return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t) ::= <<
def <t.name>_list(self):
    return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
def <t.name>(self, i=None):
    if i is None:
        return self.getTokens(<parser.name>.<t.name>)
    else:
        return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)    ::= <<
def <r.name>(self):
    return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)
    ::= <<
def <r.name>(self, i=None):
    if i is None:
        return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
    else:
        return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
 * r becomes rContext.
 */
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"

```

```

ImplicitRuleLabel(ruleName) ::= "_<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):

    def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | <a.name>=None}>):
        super(<parser.name>.<struct.name>,
            self).__init__(parent, invokingState)
        self.parser = parser
        <attrs:{a | <a>}; separator="\n">
        <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; separator="\n">

        <getters:{g | <g>}; separator="\n\n">

    def getRuleIndex(self):
        return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
    def copyFrom(self, ctx):
        super(<parser.name>.<struct.name>, self).copyFrom(ctx)
        <struct.attrs:{a | self.<a.name> = ctx.<a.name>}; separator="\n">

<endif>
    <dispatchMethods; separator="\n">
    <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name>(<currentRule.name; format="cap">Context):

    def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
        super(<parser.name>.<struct.name>, self).__init__(parser)
        <attrs:{a | <a>}; separator="\n">
        self.copyFrom(ctx)

        <getters:{g | <g>}; separator="\n">

        <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<

```

```

def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
    if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><<struct.derivedFromName; format="cap">"):
        listener.<if(method.isEnter)>enter<else>exit<endif><<struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
    if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
        return visitor.visit<struct.derivedFromName; format="cap">(self)
    else:
        return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.name> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk)
::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=<src>.<name>"
recRuleSetStopToken() ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
localctx
= <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

```

```

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
    self.triggerExitRuleEvent()
_prevctx = localctx
>>

```

```

LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

```

```

<namedActions.header>

```

```

<lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
    from .<superClass> import <superClass>
else:
    from <superClass> import <superClass>

```

```

<endif>

```

```

<atn>

```

```

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

```

```

    atn = ATNDeserializer().deserialize(serializedATN())

```

```

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

```

```

<if(lexer.channels)>

```

```

    <lexer.channels:{c| <c> = <lexer.channels.(c)>};
```

```

separator="\n">

<endif>
<if(rest(lexer.modes))>
  <rest(lexer.modes):{m| <m> = <i>}; separator="\n">

<endif>
<if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
<endif>

channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channels)>, <lexer.channels:{c|
u"<c>"}; separator=", ", wrap, anchor><endif> ]

modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

literalNames = [ u"\<INVALID>",
  <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

symbolicNames = [ u"\<INVALID>",
  <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

grammarFileName = u"<lexer.grammarFileName>"

def __init__(self, input=None, output=sys.stdout):
  super(<lexer.name>, self).__init__(input, output=output)
  self.checkVersion("<lexerFile.ANTLRVersion>")
  self._interp
= LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
  self._actions = None
  self._predicates = None

<namedActions.members>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

def serializedATN():
  with StringIO() as buf:
    buf.write(u"<model.serialized; wrap={ }<\n>    buf.write(u" }>")
    return buf.getvalue()

```

>>

```
/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>
```

```
codeFileExtension() ::= ".py"
```

Found in path(s):

```
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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```

```
/*
```

```
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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1310287415_1650320530.75/0/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ANTLRParser.java
```

# 1.155 guava 31.0.1-android

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/Quantiles.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/SubscriberRegistry.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/Dispatcher.java

\*

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/MoreObjects.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ListenerCallQueue.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/Subscriber.java

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- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Tables.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableMapValues.java
- \*
- /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/StandardRowSortedTable.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Collections2.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Platform.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Table.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Range.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/PeekingIterator.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableCollection.java
- \*
- /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/HashBasedTable.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Serialization.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableMapKeySet.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/StandardTable.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableMultimap.java
- \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableBiMap.java
- \*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/UnmodifiableIterator.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CollectPreconditions.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ExecutionSequencer.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/Java8Compatibility.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Java8Compatibility.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/math/ToDoubleRounder.java

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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/Java8Compatibility.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/math/BigDecimalMath.java

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jar/com/google/common/util/concurrent/AtomicLongMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Present.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/Hashing.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/FutureCallback.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractCompositeHashFunction.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/package-info.java  
\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AsyncFunction.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/Funnels.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EmptyContiguousSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/Hasher.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/BloomFilter.java  
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/CacheBuilderSpec.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/Murmur3\_32HashFunction.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/HashCode.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/ForwardingLoadingCache.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/package-info.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

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jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/math/DoubleUtils.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Optional.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Enums.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/ForwardingCache.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/Cache.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/CacheLoader.java

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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/HostAndPort.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularContiguousSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/BigIntegerMath.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/LoadingCache.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java

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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/MessageDigestHashFunction.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/AbstractCache.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/PairwiseEquivalence.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableMultiset.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TreeRangeSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java

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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/HttpHeaders.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/HashingOutputStream.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/BoundType.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/AbstractLoadingCache.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/hash/PrimitiveSink.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/Queues.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/AbstractStreamingHasher.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Absent.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/AbstractHasher.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/Uninterruptibles.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ForwardingLock.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/ImmutableIntArray.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/AbstractHashFunction.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/ImmutableLongArray.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/util/concurrent/ForwardingCondition.java  
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 */
/**
 * Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/IndexedImmutableSet.java
```



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```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/SortedMapDifference.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/MinMaxPriorityQueue.java
```

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/IncidentEdgeSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompactHashing.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Runnables.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/SubscriberExceptionContext.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeVisitor.java

\*

\*/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/HashingInputStream.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CharSequenceReader.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Utf8.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractTable.java

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/FilteredMultimapValues.java
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* limitations under the License.
*/
/**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned
array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ObjectArrays.java
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```

```
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jar/com/google/common/collect/GwtTransient.java

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jar/com/google/common/base/Strings.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/Atomics.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/SortedLists.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/Monitor.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/base/Ascii.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/annotations/package-info.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ListeningExecutorService.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ContiguousSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/annotations/Beta.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/package-info.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Equivalence.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/net/package-info.java  
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/\*\*

\* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/FloatsMethodsForWeb.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/MapRetrievalCache.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/DirectedNetworkConnections.java  
\*  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ForwardingNetwork.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/UndirectedGraphConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Comparators.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/EdgesConnecting.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/NetworkBuilder.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/StandardMutableValueGraph.java  
\*  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/StandardNetwork.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/MapIteratorCache.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/StandardMutableGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/graph/NetworkConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/GraphBuilder.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/StandardValueGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/GraphConstants.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/ImmutableValueGraph.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/EndpointPair.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/GraphConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/ValueGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/MultiEdgesConnecting.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/MutableValueGraph.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/UndirectedNetworkConnections.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/AbstractGraphBuilder.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/DirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/StandardMutableNetwork.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/DirectedGraphConnections.java

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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ElementOrder.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/AbstractGraph.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

```
Found in path(s):
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedMultiset.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompactLinkedHashSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RangeMap.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingDeque.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableAsList.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredMultimap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingImmutableMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredEntrySetMultimap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EvictingQueue.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredEntryMultimap.java

\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TreeTraverser.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompactHashMap.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/CompactLinkedHashMap.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/TransformedListIterator.java

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jar/com/google/common/util/concurrent/AsyncCallable.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/hash/LittleEndianByteArray.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/util/concurrent/AggregateFutureState.java

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jar/com/google/common/hash/MacHashFunction.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/hash/FarmHashFingerprint64.java

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jar/com/google/common/util/concurrent/Platform.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/io/ReaderInputStream.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/ConsumingQueueIterator.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/util/concurrent/InterruptibleTask.java

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jar/com/google/common/util/concurrent/CombinedFuture.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/Striped64.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/MultiInputStream.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Objects.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableSoftReference.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/LineReader.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Charsets.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableWeakReference.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/LineBuffer.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Predicate.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteStreams.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Function.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/AbstractIterator.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java

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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Interners.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

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jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Suppliers.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/Primitives.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/Functions.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/Resources.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/package-info.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/package-info.java
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/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/Preconditions.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/DirectExecutor.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/SuccessorsFunction.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/MutableGraph.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/Network.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/PredecessorsFunction.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/Graphs.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TopKSelector.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/MutableNetwork.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ImmutableGraph.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/graph/ImmutableNetwork.java

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```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/MultimapBuilder.java
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* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/package-info.java
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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap
class.
*/

```

Found in path(s):

```

* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/Striped.java

```

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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable}

```

to use { @link

```
* ImmutableSortedMap#of(Comparable, Object)}.</b>  
*/
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
```

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```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Platform.java
```

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```
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jar/com/google/common/html/package-info.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
```

jar/com/google/common/io/BaseEncoding.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/ByteSink.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/StandardSystemProperty.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/CartesianList.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ServiceManager.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ImmutableRangeMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/math/PairedStatsAccumulator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/AbstractByteHasher.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/Closer.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/math/PairedStats.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/SipHashFunction.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/LongAddable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/xml/package-info.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/reflect/ClassPath.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/CharSink.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/reflect/package-info.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/hash/ChecksumHashFunction.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/reflect/TypeCapture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/escape/package-info.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/FilteredKeyMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/FileWriteMode.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/reflect/Invokable.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/LongAddable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/CharSource.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/LinearTransformation.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/LongAddables.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteSource.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/StatsAccumulator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/Stats.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/LongAddables.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/Parameter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ObjectCountLinkedHashMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ClosingFuture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/AbstractBaseGraph.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/Traverser.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/graph/BaseGraph.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ObjectCountHashMap.java

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\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

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jar/com/google/common/primitives/Floats.java

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jar/com/google/common/util/concurrent/SequentialExecutor.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Shorts.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Ints.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/net/InetAddresses.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Longs.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/MultiReader.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/escape/UnicodeEscaper.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Doubles.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/ListenableFutureTask.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Chars.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/net/PercentEscaper.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/internal/Finalizer.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Joiner.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Converter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Booleans.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Stopwatch.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/FluentIterable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/Bytes.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/FileBackedOutputStream.java  
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Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ImmutableSortedMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ArrayTable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ImmutableSetMultimap.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/RegularImmutableSortedSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableTable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ComputationException.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableClassToInstanceMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableEnumSet.java  
\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ComparisonChain.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableList.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/DiscreteDomain.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingTable.java

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\*/

/\*\*

\* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain  
\* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available  
\* under GWT but with a slightly different signature.

\*



```
* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler
wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/Partially.java
```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingMapEntry.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ExplicitOrdering.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/Multiset.java
```

```
*
```

```
 /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/LexicographicalOrdering.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractIterator.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/AbstractSortedSetMultimap.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/UsingToStringOrdering.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/RegularImmutableSet.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ForwardingObject.java
```

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingQueue.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EnumBiMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/EnumHashMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ConcurrentHashSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/NullsFirstOrdering.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableList.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/HashSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Multimap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/CompoundOrdering.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractSetMultimap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractMapBasedMultiset.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ByFunctionOrdering.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedSetMultimap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingList.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingMap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/HashMultimap.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingSet.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractMapEntry.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/package-info.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractMultiset.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Lists.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingListIterator.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

jar/com/google/common/collect/LinkedListMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ForwardingMultiset.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/AbstractBiMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/LinkedHashMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ReverseNaturalOrdering.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ForwardingSortedMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/SetMultimap.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/Multisets.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/SingletonImmutableSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/NullsLastOrdering.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/Ordering.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ImmutableSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/TreeMultiset.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/Sets.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ForwardingCollection.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/Synchronized.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ListMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/ReverseOrdering.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Multimaps.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ArrayListMultimap.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingConcurrentMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/TreeMultimap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingIterator.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Iterators.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Maps.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ComparatorOrdering.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/LinkedHashMultiset.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Interner.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/BiMap.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Iterables.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ServiceManagerBridge.java

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Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/package-info.java

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/\*

\* This method was rewritten in Java from an intermediate step of the Murmur hash function in

\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

\* following header:

\*

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\* hereby  
disclaims copyright to this source code.  
\*/

Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Hashing.java

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Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/PatternCompiler.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/CommonPattern.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/JdkPattern.java

\*

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/CommonMatcher.java

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```
* the License.  
*/  
/*  
* This method was rewritten in Java from an intermediate step of the Murmur hash function in  
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the  
* following header:  
*  
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author  
* hereby disclaims  
copyright to this source code.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/SmallCharMatcher.java
```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/MapMakerInternalMap.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
*
```

```
/*  
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/net/HostSpecifier.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/reflect/TypeResolver.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Platform.java
```

```
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/annotations/GwtIncompatible.java
```

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/annotations/GwtCompatible.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractIdleService.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/ReferenceEntry.java  
 \*  
 /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/UnsignedBytes.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingFuture.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ArrayBasedCharEscaper.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteProcessor.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/html/HtmlEscapers.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/UrlEscapers.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Cut.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Callables.java  
 \*  
 /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/InternetDomainName.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/ByteArrayDataInput.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ArrayBasedEscaperMap.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableTable.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/MapMaker.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
 \*  
 /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/Escapers.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/DenseImmutableTable.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/CacheBuilder.java  
 \* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-



jar/com/google/common/io/ByteArrayDataOutput.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/escape/Platform.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/AbstractService.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/io/LineProcessor.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/xml/XmlEscapers.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/SignedBytes.java  
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jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/FluentFuture.java  
\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/CollectionFuture.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/annotations/VisibleForTesting.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/util/concurrent/AggregateFuture.java  
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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/util/concurrent/NullnessCasts.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/base/NullnessCasts.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/collect/NullnessCasts.java

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/\*\*

\* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-  
jar/com/google/common/primitives/DoublesMethodsForWeb.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/base/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/ParametricNullness.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/cache/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/reflect/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ParametricNullness.java  
\*  
/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/xml/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/html/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/net/ParametricNullness.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-

```
jar/com/google/common/collect/ParametricNullness.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/eventbus/ParametricNullness.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/graph/ParametricNullness.java
*
/opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1312950193_1650560245.64/0/guava-31-0-1-android-sources-1-
jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
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/**
* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.
*/
```

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/primitives/IntsMethodsForWeb.java

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\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedIterables.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedMultiset.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/Count.java

\*

/opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RangeSet.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ForwardingSortedMultiset.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/GeneralRange.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/SortedIterable.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/RegularImmutableSortedMultiset.java

\* /opt/cola/permits/1312950193\_1650560245.64/0/guava-31-0-1-android-sources-1-jar/com/google/common/collect/AbstractRangeSet.java

## 1.156 gson 2.8.9

## 1.156.1 Available under license :

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```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/GsonBuildConfig.java
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```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/ConstructorConstructor.java
```

```
*
```

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/UnsafeAllocator.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LazilyParsedNumber.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeReader.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/JsonReaderInternalAccess.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/TypeAdapters.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java



\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/TypeAdapter.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonTreeWriter.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonElement.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonObject.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonArray.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingStrategy.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/SerializedName.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializationContext.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/Excluder.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/FieldNamingPolicy.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/\$Gson\$Preconditions.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializationContext.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonParseException.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/ObjectConstructor.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/Gson.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonIOException.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/reflect/TypeToken.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonDeserializer.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/Expose.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/Primitives.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/GsonBuilder.java  
\*  
/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonSerializer.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/Since.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonPrimitive.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/ExclusionStrategy.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/Until.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/InstanceCreator.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonNull.java  
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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/annotations/JsonAdapter.java  
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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LinkedHashMap.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/LinkedTreeMap.java  
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Found in path(s):

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-

```
jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonScope.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/stream/JsonWriter.java
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```
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/reflect/ReflectionAccessor.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
*
/opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/PreJava9DateFormatProvider.java
* /opt/cola/permits/1330613678_1652979131.328877/0/gson-2-8-9-sources-2-
jar/com/google/gson/internal/JavaVersion.java
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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-  
jar/com/google/gson/internal/bind/NumberTypeAdapter.java  
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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-  
jar/com/google/gson/ToNumberPolicy.java  
\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-  
jar/com/google/gson/ToNumberStrategy.java  
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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonSyntaxException.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/Streams.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/internal/\$Gson\$Types.java

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\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonStreamParser.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/LongSerializationPolicy.java

\* /opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/FieldAttributes.java

\*

/opt/cola/permits/1330613678\_1652979131.328877/0/gson-2-8-9-sources-2-jar/com/google/gson/JsonParser.java

# 1.157 zstd-jni 1.5.2-1

## 1.157.1 Available under license :

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1642851452470

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;description=BSD 2-Clause License

Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: darwin/x86\_64/libzstd-jni-1.5.2-1.dylib;osname=MacOS;osname=MacOSX;processor=x86\_64, darwin/aarch64/libzstd-jni-1.5.2-1.dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/libzstd-jni-1.5.2-1.so;osname=FreeBSD;processor=amd64, freebsd/i386/libzstd-jni-1.5.2-1.so;osname=FreeBSD;processor=i386, linux/aarch64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=aarch64, linux/amd64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni-1.5.2-1.so;osname=Linux;processor=arm, linux/i386/libzstd-jni-1.5.2-1.so;osname=Linux;processor=i386, linux/mips64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=mips64, linux/ppc64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=ppc64, linux/ppc64le/libzstd-jni-1.5.2-1.so;osname=Linux;processor=ppc64le, linux/s390x/libzstd-jni-1.5.2-1.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni-1.5.2-1.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni-1.5.2-1.dll;osname=Win32;processor=x86

Bundle-SymbolicName: com.github.luben.zstd-jni

Bundle-Vendor: com.github.luben

Bundle-Version: 1.5.2.1

Created-By: 11.0.14 (Debian)

Export-Package: com.github.luben.zstd;version="1.5.2.1",com.github.luben.zstd.util;version="1.5.2.1"  
Implementation-Title: zstd-jni  
Implementation-Vendor: com.github.luben  
Implementation-Vendor-Id: com.github.luben  
Implementation-Version: 1.5.2-1  
Import-Package: org.osgi.framework;resolution:=optional  
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,darwin.x86\_64,darwin.armch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=11.0))"  
"  
Specification-Title: zstd-jni  
Specification-Vendor: com.github.luben  
Specification-Version: 1.5.2-1  
Tool: Bnd-4.0.0.201805111645

Found in path(s):

\* /opt/cola/permits/1337889408\_1654234488.39181/0/zstd-jni-1-5-2-1-jar/META-INF/MANIFEST.MF

# 1.158 free-type 2.12.1

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builds/unix/pkg.m4

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#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

src/pcf/README

src/pcf/rules.mk

```
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
```

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```

```
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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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# 1.164 agent-api 4.5.13.27526

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```
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/AppdynamicsAgent.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/impl/NoOpExitCall.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/ExitCall.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/EumDelegate.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/EventPublisher.java
*
/opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/MetricPublisher.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/impl/NoOpTransaction.java
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-
jar/com/appdynamics/agent/api/Transaction.java
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```
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-  
jar/com/appdynamics/agent/api/bootstrap/IApiBootstrapFacade.java  
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-  
jar/com/appdynamics/agent/api/ExitTypes.java  
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-  
jar/com/appdynamics/agent/api/bootstrap/NoOpTransactionDelegate.java  
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-  
jar/com/appdynamics/agent/api/bootstrap/IApiTransactionDelegate.java  
* /opt/cola/permits/1366801991_1658170427.268079/0/agent-api-4-5-13-27526-sources-  
jar/com/appdynamics/agent/api/EntryTypes.java
```

# 1.165 rxjava-server 0.9.0

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\* /opt/cola/permits/1368298591\_1658301187.6939363/0/logback-throttling-appender-1-1-9-1-jar/META-INF/maven/io.dropwizard.logback/logback-throttling-appender/pom.xml

# 1.168 avro 1.11.1

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* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-
jar/commonMain/okio/BufferedSink.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/Source.kt
*
/opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-
jar/commonMain/okio/BufferedSource.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/Buffer.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-
jar/commonMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/Sink.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/-
Buffer.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/Timeout.kt
* /opt/cola/permits/1387809635_1660200733.4071565/0/okio-3-0-0-sources-1-
jar/commonMain/okio/RealBufferedSource.kt
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- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/RealBufferedSource.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/GzipSource.kt
- \*
- /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/InflaterSource.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/GzipSink.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/SegmentPool.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/ForwardingSink.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/BufferedSource.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/BufferedSink.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/Timeout.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/RealBufferedSink.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/SegmentPool.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/DeflaterSink.kt
- \*
- /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/JvmOkio.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/AsyncTimeout.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/ForwardingSource.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/Segment.kt

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\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/-  
Path.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-  
jar/commonMain/okio/HashingSink.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-  
jar/jvmMain/okio/NioSystemFileSystem.kt  
\*  
/opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/Path.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-  
jar/jvmMain/okio/JvmSystemFileSystem.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-  
jar/commonMain/okio/ExperimentalFileSystem.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-  
jar/commonMain/okio/ForwardingFileSystem.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-  
jar/commonMain/okio/HashingSource.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/FileSystem.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/Path.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-  
jar/commonMain/okio/FileMetadata.kt

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\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/CipherSource.kt  
\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/CipherSink.kt

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Found in path(s):

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/-  
RealBufferedSink.kt

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/-  
SegmentedByteString.kt

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/-  
RealBufferedSource.kt

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Found in path(s):

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/HashingSource.kt

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/Pipe.kt

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/Options.kt

\*

/opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/HashingSink.kt

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Found in path(s):

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/-

DeprecatedUtf8.kt

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/-

DeprecatedUpgrade.kt

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-

jar/commonMain/okio/PeekSource.kt

\*

/opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/-DeprecatedOkio.kt

\* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/Throttler.kt

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Found in path(s):

- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/ByteString.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/-Util.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/-CommonPlatform.kt
- \*
- /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/-JvmPlatform.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/ByteString.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/Utf8.kt

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- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/internal/ZipEntry.kt
- \*
- /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/internal/zip.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/ZipFileSystem.kt

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Found in path(s):

- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/internal/ResourceFileSystem.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/internal/FixedLengthSource.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/FileHandle.kt
- \*
- \*/opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/JvmFileHandle.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/commonMain/okio/internal/FileSystem.kt
- \* /opt/cola/permits/1387809635\_1660200733.4071565/0/okio-3-0-0-sources-1-jar/jvmMain/okio/FileSystem.kt

## 1.170 jakarta-inject-api 1.0.5

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<https://github.com/eclipse-ee4j/injection-api>  
<https://github.com/eclipse-ee4j/injection-spec>  
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```

Found in path(s):

```
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtNewClass.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtField.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtMethod.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtConstructor.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
```

jar/javassist/bytecode/StackMapTable.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/bytecode/analysis/MultiArrayType.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/URLClassPath.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/convert/TransformWriteField.java  
\*  
/opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/tools/reflect/Reflection.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/compiler/JvstCodeGen.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/bytecode/Opcode.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/convert/TransformNew.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/tools/web/Viewer.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/bytecode/analysis/Type.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/convert/TransformFieldAccess.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/CtNewConstructor.java  
\*  
/opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/bytecode/annotation/AnnotationImpl.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/util/proxy/MethodHandler.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/bytecode/Bytecode.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/expr/Cast.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/tools/rmi/RemoteRef.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/util/proxy/SecurityActions.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/CodeConverter.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/bytecode/analysis/Executor.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/compiler/ast/IntConst.java  
\*  
/opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/bytecode/analysis/Util.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-  
jar/javassist/compiler/AccessorMaker.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-



```

jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/Parser.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ByteArray.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/Javac.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/Loader.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/MethodDecl.java
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtMember.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/NotFoundException.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/reflect/ClassMetaobject.java
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/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-

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jar/javassist/scopedpool/ScopedClassPoolFactory.java
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jar/javassist/compiler/ast/CastExpr.java
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jar/javassist/convert/Transformer.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtClassType.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/expr/MethodCall.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/runtime/Desc.java
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/ClassClassPath.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ClassFileWriter.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/LoaderClassPath.java
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jar/javassist/bytecode/analysis/MultiType.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ConstantAttribute.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/Modifier.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/rmi/ObjectNotFoundException.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/analysis/Frame.java

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\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtArray.java  
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/opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java  
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jar/javassist/expr/NewArray.java
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jar/javassist/bytecode/ByteStream.java
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
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* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ProceedHandler.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/ClassPath.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/ClassFile.java
*
/opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/CtClass.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/ClassMap.java
* /opt/cola/permits/1417024694_1663223145.316145/0/javassist-3-29-1-ga-sources-
jar/javassist/bytecode/Mnemonic.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Javassist, a Java-bytecode translator toolkit.
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```

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\*/

Found in path(s):

\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java  
\*  
/opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/ByteMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/Annotation.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/LongMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java  
\*  
/opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/AnnotationMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/StringMemberValue.java  
\* /opt/cola/permits/1417024694\_1663223145.316145/0/javassist-3-29-1-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java

## 1.172 jackson-datatype-jsr310 2.13.4

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### 2.13.4

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## 1.174 metrics 4.2.12

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* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Buffer.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/ssh/ShellFactoryImpl.java

```

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java  
\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/BufferImpl.java  
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\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/style/StyleColor.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/telnet/Telnet.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java  
\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/NonBlockingPumpReader.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/style/NopStyleSource.java  
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Found in path(s):

```

* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/telnet/ConnectionManager.java
*
  /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/telnet/ConnectionEvent.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/telnet/TelnetIO.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/telnet/Connection.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/telnet/ConnectionData.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/builtins/telnet/PortListener.java

```

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```
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/InputRC.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/ParsedLine.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/History.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/NonBlocking.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/style/StyleExpression.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/reader/impl/KillRing.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/Size.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Completer.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/Colors.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/style/Styler.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/Curses.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/style/StyleFactory.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/terminal/impl/DumbTerminal.java
```

```
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/NfaMatcher.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/Utils/NonBlockingInputStream.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/Utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/keymap/BindingReader.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/reader/MaskingCallback.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/style/StyleSource.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/Utils/NonBlockingInputStreamImpl.java
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```

```
auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
```

move\_insert\_mode, mir, mi  
move\_standout\_mode, msgr, ms  
needs\_xon\_xoff, nxon, nx  
no\_esc\_ctlc, xsb, xb  
no\_pad\_char, npc,  
NP  
non\_dest\_scroll\_region, ndscr, ND  
non\_rev\_rmcup, nrrmc, NR  
over\_strike, os, os  
prtr\_silent, mc5i, 5i  
row\_addr\_glitch, xvpa, YD  
semi\_auto\_right\_margin, sam, YE  
status\_line\_esc\_ok, eslok, es  
tilde\_glitch, hz, hz  
transparent\_underline, ul, ul  
xon\_xoff, xon, xo  
columns, cols, co  
init\_tabs, it, it  
label\_height, lh, lh  
label\_width, lw, lw  
lines, lines, li  
lines\_of\_memory, lm, lm  
magic\_cookie\_glitch, xmc, sg  
max\_attributes, ma, ma  
max\_colors, colors, Co  
max\_pairs, pairs, pa  
maximum\_windows, wnum, MW  
no\_color\_video, ncv, NC  
num\_labels, nlab, Nl  
padding\_baud\_rate, pb, pb  
virtual\_terminal, vt, vt  
width\_status\_line, wsl, ws  
bit\_image\_entwining, bitwin, Yo  
bit\_image\_type, bitype, Yp  
buffer\_capacity, bufisz, Ya  
buttons, btns, BT  
dot\_horz\_spacing, spinh, Yc  
dot\_vert\_spacing, spinv, Yb  
max\_micro\_address, maddr, Yd  
max\_micro\_jump, mjump, Ye  
micro\_col\_size, mcs, Yf  
micro\_line\_size, mls, Yg  
number\_of\_pins, npins, Yh  
output\_res\_char, orc, Yi  
output\_res\_horz\_inch, orhi, Yk  
output\_res\_line, orl, Yj  
output\_res\_vert\_inch,



orvi, Yl  
print\_rate, cps, Ym  
wide\_char\_size, widcs, Yn  
acs\_chars, acsc, ac  
back\_tab, cbt, bt  
bell, bel, bl  
carriage\_return, cr, cr  
change\_char\_pitch, cpi, ZA  
change\_line\_pitch, lpi, ZB  
change\_res\_horz, chr, ZC  
change\_res\_vert, cvr, ZD  
change\_scroll\_region, csr, cs  
char\_padding, rmp, rP  
clear\_all\_tabs, tbc, ct  
clear\_margins, mgc, MC  
clear\_screen, clear, cl  
clr\_bol, e11, cb  
clr\_eol, el, ce  
clr\_eos, ed, cd  
column\_address, hpa, ch  
command\_character, cmdch, CC  
create\_window, cwin, CW  
cursor\_address, cup, cm  
cursor\_down, cud1, do  
cursor\_home, home, ho  
cursor\_invisible, civis, vi  
cursor\_left, cub1, le  
cursor\_mem\_address, mrcup, CM  
cursor\_normal, cnorm, ve  
cursor\_right, cuf1, nd  
cursor\_to\_ll, ll, ll  
cursor\_up, cuu1, up  
cursor\_visible, cvvis, vs  
define\_char, defc, ZE  
delete\_character, dch1, dc  
delete\_line, dl1, dl  
dial\_phone, dial, DI  
dis\_status\_line, dsl, ds  
display\_clock, dclk, DK  
down\_half\_line, hd, hd  
ena\_acs, enacs, eA  
enter\_alt\_charset\_mode, smacs, as  
enter\_am\_mode, smam,  
SA  
enter\_blink\_mode, blink, mb  
enter\_bold\_mode, bold, md  
enter\_ca\_mode, smcup, ti  
enter\_delete\_mode, smdc, dm

enter\_dim\_mode, dim, mh  
enter\_doublewide\_mode, swidm, ZF  
enter\_draft\_quality, sdrfq, ZG  
enter\_insert\_mode, smir, im  
enter\_italics\_mode, sitm, ZH  
enter\_leftward\_mode, slm, ZI  
enter\_micro\_mode, smicm, ZJ  
enter\_near\_letter\_quality, snlq, ZK  
enter\_normal\_quality, snrmq, ZL  
enter\_protected\_mode, prot, mp  
enter\_reverse\_mode, rev, mr  
enter\_secure\_mode, invis, mk  
enter\_shadow\_mode, sshm, ZM  
enter\_standout\_mode, smso, so  
enter\_subscript\_mode, ssubm, ZN  
enter\_superscript\_mode, ssupm, ZO  
enter\_underline\_mode, smul, us  
enter\_upward\_mode, sum, ZP  
enter\_xon\_mode, smxon, SX  
erase\_chars, ech, ec  
exit\_alt\_charset\_mode, rmacs, ae  
exit\_am\_mode, rmam, RA  
exit\_attribute\_mode, sgr0, me  
exit\_ca\_mode, rmcup, te  
exit\_delete\_mode, rmdc, ed  
exit\_doublewide\_mode, rwidm, ZQ  
exit\_insert\_mode, rmir, ei  
exit\_italics\_mode, ritm, ZR  
exit\_leftward\_mode, rlm, ZS  
exit\_micro\_mode, rmicm, ZT  
exit\_shadow\_mode, rshm,  
ZU  
exit\_standout\_mode, rmso, se  
exit\_subscript\_mode, rsubm, ZV  
exit\_superscript\_mode, rsupm, ZW  
exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
exit\_xon\_mode, rmxon, RX  
fixed\_pause, pause, PA  
flash\_hook, hook, fh  
flash\_screen, flash, vb  
form\_feed, ff, ff  
from\_status\_line, fsl, fs  
goto\_window, wingo, WG  
hangup, hup, HU  
init\_1string, is1, i1  
init\_2string, is2, is  
init\_3string, is3, i3

init\_file, if, if  
init\_prog, iprog, iP  
initialize\_color, initc, Ic  
initialize\_pair, initp, Ip  
insert\_character, ich1, ic  
insert\_line, ill, al  
insert\_padding, ip, ip  
key\_a1, ka1, K1  
key\_a3, ka3, K3  
key\_b2, kb2, K2  
key\_backspace, kbs, kb  
key\_beg, kbeg, @1  
key\_btab, kcbt, kB  
key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2  
key\_catab, ktbc, ka  
key\_clear, kclr, kC  
key\_close, kclo, @3  
key\_command, kcmd, @4  
key\_copy, kcpy, @5  
key\_create, kcrt, @6  
key\_ctab, kctab, kt  
key\_dc, kdch1, kD  
key\_dl, kdl1, kL  
key\_down, kcud1, kd  
key\_eic, krmir, kM  
key\_end, kend, @7  
key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos,  
ked, kS  
key\_exit, kext, @9  
key\_f0, kf0, k0  
key\_f1, kf1, k1  
key\_f10, kf10, k;  
key\_f11, kf11, F1  
key\_f12, kf12, F2  
key\_f13, kf13, F3  
key\_f14, kf14, F4  
key\_f15, kf15, F5  
key\_f16, kf16, F6  
key\_f17, kf17, F7  
key\_f18, kf18, F8  
key\_f19, kf19, F9  
key\_f2, kf2, k2  
key\_f20, kf20, FA  
key\_f21, kf21, FB

key\_f22, kf22, FC  
key\_f23, kf23, FD  
key\_f24, kf24, FE  
key\_f25, kf25, FF  
key\_f26, kf26, FG  
key\_f27, kf27, FH  
key\_f28, kf28, FI  
key\_f29, kf29, FJ  
key\_f3, kf3, k3  
key\_f30, kf30, FK  
key\_f31, kf31, FL  
key\_f32, kf32, FM  
key\_f33, kf33, FN  
key\_f34, kf34, FO  
key\_f35, kf35, FP  
key\_f36, kf36, FQ  
key\_f37, kf37, FR  
key\_f38, kf38, FS  
key\_f39, kf39, FT  
key\_f4, kf4, k4  
key\_f40, kf40, FU  
key\_f41, kf41, FV  
key\_f42, kf42, FW  
key\_f43, kf43, FX  
key\_f44, kf44, FY  
key\_f45, kf45, FZ  
key\_f46, kf46, Fa  
key\_f47, kf47, Fb  
key\_f48, kf48, Fc  
key\_f49, kf49, Fd  
key\_f5, kf5, k5  
key\_f50, kf50, Fe  
key\_f51, kf51, Ff  
key\_f52, kf52, Fg  
key\_f53, kf53, Fh  
key\_f54, kf54, Fi  
key\_f55, kf55, Fj  
key\_f56, kf56, Fk  
key\_f57, kf57, Fl  
key\_f58, kf58,  
Fm  
key\_f59, kf59, Fn  
key\_f6, kf6, k6  
key\_f60, kf60, Fo  
key\_f61, kf61, Fp  
key\_f62, kf62, Fq  
key\_f63, kf63, Fr  
key\_f7, kf7, k7

key\_f8, kf8, k8  
key\_f9, kf9, k9  
key\_find, kfnd, @0  
key\_help, khlp, %1  
key\_home, khome, kh  
key\_ic, kich1, kI  
key\_il, kil1, kA  
key\_left, kcub1, kl  
key\_ll, kll, kH  
key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5  
key\_npage, knp, kN  
key\_open, kopn, %6  
key\_options, kopt, %7  
key\_ppage, kpp, kP  
key\_previous, kprv, %8  
key\_print, kpri, %9  
key\_redo, krdo, %0  
key\_reference, kref, &1  
key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4  
key\_resume, kres, &5  
key\_right, kcuf1, kr  
key\_save, ksav, &6  
key\_sbeg, kBEG, &9  
key\_scancel, kCAN, &0  
key\_scommand, kCMD, \*1  
key\_scopy, kCPY, \*2  
key\_screate, kCRT, \*3  
key\_sdc, kDC, \*4  
key\_sdl, kDL, \*5  
key\_select, kslt, \*6  
key\_send, kEND, \*7  
key\_seol, kEOL, \*8  
key\_sexit, kEXT, \*9  
key\_sf, kind, kF  
key\_sfind, kFND, \*0  
key\_shelp, kHLP, #1  
key\_shome, kHOM, #2  
key\_sic, kIC, #3  
key\_sleft, kLFT, #4  
key\_smessage,  
kMSG, %a  
key\_smove, kMOV, %b  
key\_snext, kNXT, %c

key\_options, kOPT, %d  
key\_sprevious, kPRV, %e  
key\_sprint, kPRT, %f  
key\_sr, kri, kR  
key\_sredo, kRDO, %g  
key\_sreplace, kRPL, %h  
key\_sright, kRIT, %i  
key\_sresume, kRES, %j  
key\_ssave, kSAV, !1  
key\_ssuspend, kSPD, !2  
key\_stab, khts, kT  
key\_sundo, kUND, !3  
key\_suspend, kspd, &7  
key\_undo, kund, &8  
key\_up, kcuu1, ku  
keypad\_local, rmkx, ke  
keypad\_xmit, smkx, ks  
lab\_f0, lf0, l0  
lab\_f1, lf1, l1  
lab\_f10, lf10, la  
lab\_f2, lf2, l2  
lab\_f3, lf3, l3  
lab\_f4, lf4, l4  
lab\_f5, lf5, l5  
lab\_f6, lf6, l6  
lab\_f7, lf7, l7  
lab\_f8, lf8, l8  
lab\_f9, lf9, l9  
label\_format, fln, Lf  
label\_off, rmln, LF  
label\_on, smln, LO  
meta\_off, rmm, mo  
meta\_on, smm, mm  
micro\_column\_address, mhpa, ZY  
micro\_down, mcud1, ZZ  
micro\_left, mcub1, Za  
micro\_right, mcuf1, Zb  
micro\_row\_address, mvpa, Zc  
micro\_up, mcuu1, Zd  
newline, nel, nw  
order\_of\_pins, porder, Ze  
orig\_colors, oc, oc  
orig\_pair, op, op  
pad\_char, pad, pc  
parm\_dch, dch, DC  
parm\_delete\_line, dl, DL  
parm\_down\_cursor, cud, DO  
parm\_down\_micro,

mcud, Zf  
parm\_ich, ich, IC  
parm\_index, indn, SF  
parm\_insert\_line, il, AL  
parm\_left\_cursor, cub, LE  
parm\_left\_micro, mcub, Zg  
parm\_right\_cursor, cuf, RI  
parm\_right\_micro, mcuf, Zh  
parm\_rindex, rin, SR  
parm\_up\_cursor, cuu, UP  
parm\_up\_micro, mcuu, Zi  
pkey\_key, pfkey, pk  
pkey\_local, pfloc, pl  
pkey\_xmit, pfx, px  
plab\_norm, pln, pn  
print\_screen, mc0, ps  
prtr\_non, mc5p, pO  
prtr\_off, mc4, pf  
prtr\_on, mc5, po  
pulse, pulse, PU  
quick\_dial, qdial, QD  
remove\_clock, rmclk, RC  
repeat\_char, rep, rp  
req\_for\_input, rfi, RF  
reset\_1string, rs1, r1  
reset\_2string, rs2, r2  
reset\_3string, rs3, r3  
reset\_file, rf, rf  
restore\_cursor, rc, rc  
row\_address, vpa, cv  
save\_cursor, sc, sc  
scroll\_forward, ind, sf  
scroll\_reverse, ri, sr  
select\_char\_set, scs, Zj  
set\_attributes, sgr, sa  
set\_background, setb, Sb  
set\_bottom\_margin, smgb, Zk  
set\_bottom\_margin\_parm, smgbp, Zl  
set\_clock, sclk, SC  
set\_color\_pair, scp, sp  
set\_foreground, setf, Sf  
set\_left\_margin, smgl, ML  
set\_left\_margin\_parm, smglp, Zm  
set\_right\_margin,  
smgr, MR  
set\_right\_margin\_parm, smgrp, Zn  
set\_tab, hts, st  
set\_top\_margin, smgt, Zo

set\_top\_margin\_parm, smgtp, Zp  
set\_window, wind, wi  
start\_bit\_image, sbim, Zq  
start\_char\_set\_def, scsd, Zr  
stop\_bit\_image, rbim, Zs  
stop\_char\_set\_def, rcsd, Zt  
subscript\_characters, subcs, Zu  
superscript\_characters, supcs, Zv  
tab, ht, ta  
these\_cause\_cr, docr, Zw  
to\_status\_line, tsl, ts  
tone, tone, TO  
underline\_char, uc, uc  
up\_half\_line, hu, hu  
user0, u0, u0  
user1, u1, u1  
user2, u2, u2  
user3, u3, u3  
user4, u4, u4  
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user6, u6, u6  
user7, u7, u7  
user8, u8, u8  
user9, u9, u9  
wait\_tone, wait, WA  
xoff\_character, xoffc, XF  
xon\_character, xonc, XN  
zero\_motion, zerom, Zx  
alt\_scancode\_esc, scesa, S8  
bit\_image\_carriage\_return, bicr, Yv  
bit\_image\_newline, binel, Zz  
bit\_image\_repeat, birep, Xy  
char\_set\_names, csnm, Zy  
code\_set\_init, csin, ci  
color\_names, colorm, Yw  
define\_bit\_image\_region, defbi, Yx  
device\_type, devt, dv  
display\_pc\_char, dispc, S1  
end\_bit\_image\_region, endbi, Yy  
enter\_pc\_charset\_mode,  
smpch, S2  
enter\_scancode\_mode, smsc, S4  
exit\_pc\_charset\_mode, rmpch, S3  
exit\_scancode\_mode, rmsc, S5  
get\_mouse, getm, Gm  
key\_mouse, kmous, Km  
mouse\_info, minfo, Mi  
pc\_term\_options, pctrm, S6



pkey\_plab, pfxl, xl  
req\_mouse\_pos, reqmp, RQ  
scancode\_escape, scesc, S7  
set0\_des\_seq, s0ds, s0  
set1\_des\_seq, s1ds, s1  
set2\_des\_seq, s2ds, s2  
set3\_des\_seq, s3ds, s3  
set\_a\_background, setab, AB  
set\_a\_foreground, setaf, AF  
set\_color\_band, setcolor, Yz  
set\_lr\_margin, smglr, ML  
set\_page\_length, slines, YZ  
set\_tb\_margin, smgtb, MT  
enter\_horizontal\_hl\_mode, ehhl, Xh  
enter\_left\_hl\_mode, elhl, Xl  
enter\_low\_hl\_mode, elohlm, Xo  
enter\_right\_hl\_mode, erhl, Xr  
enter\_top\_hl\_mode, ethlm, Xt  
enter\_vertical\_hl\_mode, evhl, Xv  
set\_a\_attributes, sgr1, sA  
set\_pglen\_inch, slength, sL

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\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utis/capabilities.txt

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\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/builtins/telnet/ConnectionListener.java  
\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/builtins/telnet/ConnectionFilter.java  
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teal  
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thistle3  
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\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/colors.txt

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\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Expander.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/spi/Pty.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/package-info.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/CursorSupport.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java

\*

/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/completer/NullCompleter.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/NullCompleter.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/completer/AggregateCompleter.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/history/package-info.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/keymap/KeyMap.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/OSUtils.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/reader/impl/completer/package-info.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/MouseEvent.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/package-

info.java

\*

/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/Attributes.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-

jar/org/jline/terminal/impl/MouseSupport.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-



jar/org/jline/terminal/impl/ExecPty.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/utils/AttributedString.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/utils/ShutdownHooks.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/terminal/impl/AbstractPosixTerminal.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/DiffHelper.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/WCWidth.java  
\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/reader/impl/DefaultExpander.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Source.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/ExecHelper.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/Cursor.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Macro.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/utils/InputStreamReader.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Binding.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/reader/UserInterruptException.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/reader/impl/UndoTree.java  
\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/reader/impl/completer/EnumCompleter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Widget.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/package-info.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/utils/ClosedException.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/terminal/impl/NativeSignalHandler.java  
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jar/org/jline/reader/impl/ReaderUtils.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/widget/AutosuggestionWidgets.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/Utils/Signals.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CommandInput.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/AbstractCommandRegistry.java  
 \*  
 /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/LineReaderBuilder.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/widget/Widgets.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/widget/AutopairWidgets.java  
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 /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CommandRegistry.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Nano.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CommandMethods.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/spi/JnaSupport.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/TerminalBuilder.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/Builtins.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/Utils/Display.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java  
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 /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jansi/JansiSupportImpl.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/Utils/Log.java  
 \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/DefaultParser.java

\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Parser.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/LineReaderImpl.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/ConsoleOptionGetter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/JlineCommandRegistry.java  
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/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/CompletionMatcher.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CmdLine.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/EndOfFileException.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/TTop.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/ConsoleEngine.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/ColorPalette.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/CmdDesc.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java  
\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/spi/JansiSupport.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/ScriptEngine.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Less.java  
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\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-  
jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java  
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- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline/pom.xml
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
- \*
- /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml

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- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/Candidate.java
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/Status.java
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/AbstractPty.java
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/ConfigurationPath.java
- \* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Tmux.java

\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/ArgumentCompleter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/InfoCmp.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/Highlighter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/completer/Editor.java  
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\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/DefaultPrinter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/ConsoleEngineImpl.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/PrintAboveWriter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Commands.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/history/DefaultHistory.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/ArgDesc.java  
\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/DefaultHighlighter.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/Printer.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/widget/TailTipWidgets.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Styles.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/LineReader.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/console/impl/SystemRegistryImpl.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java  
\* /opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/builtins/Completers.java  
\*  
/opt/cola/permits/1434683282\_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/terminal/impl/AbstractTerminal.java

```
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/console/impl/SystemHighlighter.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-
jar/org/jline/console/SystemRegistry.java
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/utils/AttributedStyle.java
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```

Found in path(s):

```
* /opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/SyntaxError.java
*
/opt/cola/permits/1434683282_1665037674.3132415/0/jline-3-20-0-sources-jar/org/jline/reader/EOFError.java
```

## 1.183 metrics-annotation 4.2.12

### 1.183.1 Available under license :

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.annotation  
Build-Jdk-Spec: 11  
Bundle-Description: A dependency-less package of just the annotations used by other Metrics modules.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Annotations for Metrics  
Bundle-SymbolicName: io.dropwizard.metrics.annotation  
Bundle-Version: 4.2.12  
Created-By: Apache Maven Bundle Plugin 5.1.8

Export-Package: com.codahale.metrics.annotation;version="4.2.12"  
Implementation-Title: Annotations for Metrics  
Implementation-Version: 4.2.12  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1435925682\_1665131991.1248417/0/metrics-annotation-4-2-12-jar/META-INF/MANIFEST.MF

## 1.184 metrics-logback 4.2.12

### 1.184.1 Available under license :

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.logback  
Build-Jdk-Spec: 11  
Bundle-Description: An instrumented appender for Logback.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Logback  
Bundle-SymbolicName: io.dropwizard.metrics.logback  
Bundle-Version: 4.2.12  
Created-By: Apache Maven Bundle Plugin 5.1.8  
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.classic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.2.12"  
Implementation-Title: Metrics Integration for Logback  
Implementation-Version: 4.2.12  
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logback.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)",com.codahale.metrics;version="[4.2,5)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\*

/opt/cola/permits/1437913135\_1665412964.3274512/0/metrics-logback-4-2-12-jar/META-INF/MANIFEST.MF

## 1.185 metrics-jersey2 4.2.12

### 1.185.1 Available under license :

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.jersey2



Build-Jdk-Spec: 11  
Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Jersey 2.x  
Bundle-SymbolicName: io.dropwizard.metrics.jersey2  
Bundle-Version: 4.2.12  
Created-By: Apache Maven Bundle Plugin 5.1.8  
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics, javax.ws.rs.core, javax.ws.rs.ext, org.glassfish.jersey.server.model, org.glassfish.jersey.server.monitoring";version="4.2.12"  
Implementation-Title: Metrics Integration for Jersey 2.x  
Implementation-Version: 4.2.12  
Import-Package: com.codahale.metrics;version="[4.2,5)", com.codahale.metrics.annotation;version="[4.2,5)", javax.ws.rs.core;version="[2.1,3)", javax.ws.rs.ext;version="[2.1,3)", org.glassfish.jersey.server;version="[2.36,3)", org.glassfish.jersey.server.model;version="[2.36,3)", org.glassfish.jersey.server.monitoring;version="[2.36,3)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1437913170\_1665412973.240013/0/metrics-jersey2-4-2-12-jar/META-INF/MANIFEST.MF

# 1.186 liquibase 4.9.1

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# 1.187 protobuf-java 3.19.6

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Manifest-Version: 1.0  
Automatic-Module-Name: com.google.protobuf  
Bnd-LastModified: 1664485905970  
Build-Jdk: 1.8.0\_181-google-v7  
Built-By: mkruskal  
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.  
Bundle-DocURL: <https://developers.google.com/protocol-buffers/>  
Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>  
Bundle-ManifestVersion: 2  
Bundle-Name: Protocol Buffers [Core]  
Bundle-SymbolicName: com.google.protobuf  
Bundle-Version: 3.19.6  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.google.protobuf;version="3.19.6"  
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.19,4)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/timestamp.proto  
\* /opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/struct.proto  
\* /opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/wrappers.proto  
\*

/opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/type.proto  
\* /opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/empty.proto  
\* /opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/any.proto  
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\* /opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/source\_context.proto  
\* /opt/cola/permits/1444789790\_1666041710.804059/0/protobuf-java-3-19-6-jar/google/protobuf/api.proto

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## 1.190 metrics-json 4.1.25

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## 1.191 metrics-jetty 4.1.25

## 1.191.1 Available under license :

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# 1.192 metrics-servlets 4.1.25

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# 1.193 metrics-health-checks 4.1.25

## 1.193.1 Available under license :

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# 1.194 metrics-jmx 4.1.25

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# 1.195 zlib 1.2.13-r1

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Jean-loup Gailly  
jloup@gzip.org

Mark Adler  
madler@alumni.caltech.edu



# 1.196 jctools-core 4.0.1

## 1.196.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1662622707903

Build-Jdk-Spec: 11

Bundle-Description: Java Concurrency Tools Core Library

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Java Concurrency Tools Core Library

Bundle-SymbolicName: org.jctools.core

Bundle-Version: 4.0.1

Created-By: Apache Maven Bundle Plugin 5.1.6

Export-Package: org.jctools.maps;version="4.0.1",org.jctools.util;uses:="sun.misc";version="4.0.1",org.jctools.queues;version="4.0.1",org.jctools.queues.atomic;uses:="org.jctools.queues";version="4.0.1",org.jctools.queues.unpadded;uses:="org.jctools.queues";version="4.0.1",org.jctools.counters;version="4.0.1"

Import-Package: sun.misc;resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-6.2.0.202202251641

Found in path(s):

\* /opt/cola/permits/1500645298\_1670406227.9308958/0/jctools-core-4-0-1-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1500645298\_1670406227.9308958/0/jctools-core-4-0-1-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

# 1.197 gson 2.10

## 1.197.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Created-By: 17.0.4.1 (Oracle Corporation)

Build-Jdk-Spec: 17

Bnd-LastModified: 1666660169762

Bundle-ContactAddress: <https://github.com/google/gson>

Bundle-Description: Gson JSON library  
Bundle-DocURL: <https://github.com/google/gson/gson>  
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICENSE-2.0.txt"  
Bundle-ManifestVersion: 2  
Bundle-Name: Gson  
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8  
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:git:https://github.com/google/gson.git/gson",developer-connection="scm:git:git@github.com:google/gson.git/gson",tag="gson-parent-2.10"  
Bundle-SymbolicName: com.google.gson  
Bundle-Vendor: Google Gson Project  
Bundle-Version: 2.10.0  
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.gson.stream";version="2.10.0",com.google.gson.annotations;version="2.10.0",com.google.gson.reflect;version="2.10.0",com.google.gson.stream;version="2.10.0"  
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotations  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-6.3.1.202206071316  
Multi-Release: true

Found in path(s):

\* /opt/cola/permits/1501397172\_1670465940.2721026/0/gson-2-10-2-jar/META-INF/MANIFEST.MF

# 1.198 cloudevents-kafka 2.1.1

## 1.198.1 Available under license :

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```

Found in path(s):

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/META-INF/maven/io.cloudevents/cloudevents-kafka/pom.xml

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\*

\*/

Found in path(s):

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/impl/KafkaHeaders.java

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/impl/KafkaSerializerMessageWriterImpl.java

\*

/opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/CloudEventDeserializer.java

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/KafkaMessageFactory.java

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/CloudEventMessageSerializer.java

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/CloudEventMessageDeserializer.java

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/impl/KafkaBinaryMessageReaderImpl.java

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/CloudEventSerializer.java

\* /opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/impl/KafkaProducerMessageWriterImpl.java

\*

/opt/cola/permits/1508291111\_1670975016.7551763/0/cloudevents-kafka-2-1-1-sources-1-jar/io/cloudevents/kafka/impl/BaseKafkaMessageWriterImpl.java

# 1.199 cloudevents-api 2.1.1

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```

Found in path(s):

```
* /opt/cola/permits/1508291066_1670974985.798763/0/cloudevents-api-2-1-1-2-jar/META-INF/maven/io.cloudevents/cloudevents-api/pom.xml
```

# 1.200 cloudevents-core 2.1.1

## 1.200.1 Available under license :

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\*/

Found in path(s):

\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/CloudEventUtils.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/extensions/DistributedTracingExtension.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/format/EventFormat.java  
\*  
/opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/message/impl/BaseBinaryMessageReader.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/message/impl/MessageUtils.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/v03/V1ToV03AttributesConverter.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/impl/CloudEventReaderAdapter.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/message/impl/BaseStructuredMessageReader.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/v03/CloudEventV03.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/message/Encoding.java  
\*  
/opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/format/EventSerializationException.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/v1/CloudEventBuilder.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/v1/V03ToV1AttributesConverter.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/extensions/DaterefExtension.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/impl/BaseCloudEventBuilder.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/extensions/impl/ExtensionUtils.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/builder/CloudEventBuilder.java  
\*  
/opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/provider/ExtensionProvider.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/message/MessageReader.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/message/impl/GenericStructuredMessageReader.java  
\* /opt/cola/permits/1508291239\_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/io/cloudevents/core/message/StructuredMessageWriter.java

```
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/v1/CloudEventV1.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/MessageWriter.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/impl/BaseCloudEvent.java
*
/opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/message/StructuredMessageReader.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/provider/EventFormatProvider.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/v03/CloudEventBuilder.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/format/EventDeserializationException.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
jar/io/cloudevents/core/impl/CloudEventContextReaderAdapter.java
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-
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```

Found in path(s):

```
* /opt/cola/permits/1508291239_1670975013.352485/0/cloudevents-core-2-1-1-sources-1-jar/META-
INF/maven/io.cloudevents/cloudevents-core/pom.xml
```

## 1.201 postgresql 42.4.3

## 1.201.1 Available under license :

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## 1.202 netty 4.1.86.Final

### 1.202.1 Available under license :

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Classes/Epoll

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.classes.epoll

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-classes-epoll

Implementation-Version: 4.1.86.Final

Built-By: root

Bnd-LastModified: 1670851209269

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.

io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.channel.epoll;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.socket,io.netty.channel.unix,io.netty.util,io.netty.util.concurrent";version="4.1.86"  
Bundle-Name: Netty/Transport/Classes/Epoll  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_352  
Implementation-URL: <https://netty.io/netty-transport-classes-epoll/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-classes-epoll-4-1-86-final-jar/META-INF/MANIFEST.MF

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Manifest-Version: 1.0  
Implementation-Title: Netty/Transport/Native/Unix/Common  
Bundle-Description: Static library which contains common unix utilities.  
Automatic-Module-Name: io.netty.transport.unix.common  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>  
Bundle-SymbolicName: io.netty.transport-native-unix-common  
Implementation-Version: 4.1.86.Final  
Built-By: norman  
Bnd-LastModified: 1670855190526  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool:  
Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.channel.unix;uses:="io.netty.buffer,io.netty.



channel,io.netty.channel.socket,io.netty.util";version="4.1.86"  
Bundle-Name: Netty/Transport/Native/Unix/Common  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-transport-native-unix-common/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-native-unix-common-4-1-86-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-classes-epoll-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Handler/Proxy

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.handler.proxy

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.handler-proxy

Implementation-Version: 4.1.86.Final

Built-By: root

Bnd-LastModified: 1670851161046

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.http;version="[4.1,5)",io.netty.handler.codec.socksx.v4;version="[4.1,5)",io.netty.handler.codec.socksx.v5;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.proxy;uses:="io.netty.channel,io.netty.handler.codec.http,io.netty.util.concurrent";version="4.1.86"  
Bundle-Name: Netty/Handler/Proxy  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_352  
Implementation-URL: <https://netty.io/netty-handler-proxy/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-proxy-4-1-86-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Resolver

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.resolver

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.resolver

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855159282

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability:

osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.resolver;uses:="io.netty.util.concurrent";version="4.1.86"  
Bundle-Name: Netty/Resolver  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-resolver/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-resolver-4-1-86-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Implementation-Title: Netty/Common  
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.  
Automatic-Module-Name: io.netty.common  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>  
Bundle-SymbolicName: io.netty.common  
Implementation-Version: 4.1.86.Final  
Built-By: norman  
Bnd-LastModified: 1670855137664  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: sun.misc;resolution:=optional,com.oracle.svm.core.annotate;resolution:=optional,javax.security.cert;resolution:=optional,org.apache.commons.logging;resolution:=optional;version="[1.2,2)",org.apache.log4j;resolution:=optional;version="[2.17,3)",org.apache.logging.log4j;resolution:=optional;version="[2.17,3)",org.apache.logging.log4j.message;resolution:=optional;version="[2.17,3)",org.apache.logging.log4j.spi;resolution:=optional;version="[2.17,3)",org.slf4j;resolution:=optional;version="[1.7,2)",org.slf4j.helpers;resolution:=optional;version="[1.7,2)",org.slf4j.spi;resolution:=optional;version="[1.7,2)",reactor.blockhound;resolution:=optional,reactor.blockhound.integration;resolution:=optional  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"  
DynamicImport-Package: \*  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.util;uses:="io.netty.util.concurrent,io.netty.util.internal";version="4.1.86",io.netty.util.collection;version="4.

1.86",io.netty.util.concurrent;uses:="io.netty.util.internal";version  
="4.1.86",io.netty.util.internal;uses:="io.netty.util,io.netty.util.c  
oncurrent,io.netty.util.internal.logging,javax.security.cert,reactor.  
blockhound,reactor.blockhound.integration";version="4.1.86",io.netty.  
util.internal.logging;version="4.1.86",io.netty.util.internal.svm;ver  
sion="4.1.86"

Bundle-Name: Netty/Common

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-common/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/maven/io.netty/netty-common/pom.xml

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/maven/io.netty/netty-buffer/pom.xml

\*

/opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec/pom.xml

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport/pom.xml

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/maven/io.netty/netty-handler/pom.xml

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-socks-4-1-86-final-jar/META-

INF/maven/io.netty/netty-codec-socks/pom.xml

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport/Native/Epoll

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.transport.epoll.linux.x86\_64

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.transport-native-epoll

Implementation-Version: 4.1.86.Final

Built-By: root

Bnd-LastModified: 1670851257748

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Bundle-Name: Netty/Transport/Native/Epoll

Bundle-Version:

4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_352

Implementation-URL: <https://netty.io/netty-transport-native-epoll/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-native-epoll-4-1-86-final-jar/META-INF/MANIFEST.MF

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io.netty.util.internal.Hidden\$NettyBlockHoundIntegration

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration  
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Codec/HTTP2

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.http2

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-http2

Implementation-Version: 4.1.86.Final

Built-By: root

Bnd-LastModified: 1670851101053

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.codec.http;version="[4.1,5)",io.netty.handler.logging;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.collection;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.net.ssl,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.codec.http2;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http,io.netty.handler.logging,io.netty.handler.stream,io.netty.util,io.netty.util.collection,io.netty.util.concurrent";version="4.1.86"

Bundle-Name:

Netty/Codec/HTTP2

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_352

Implementation-URL: <https://netty.io/netty-codec-http2/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/maven/io.netty/netty-codec-http2/pom.xml

\*

/opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-resolver-4-1-86-final-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-proxy-4-1-86-final-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Handler

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.handler

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.handler

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855199960

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: sun.security.x509;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.channel.unix;version="[4.1,5)",io.netty.handler.codec;version="[4.1,5)",io.netty.handler.codec.base64;version="[4.1,5)",io.netty.internal.tcnative;version="[2.0,3)";resolution:=optional,io.netty.resolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",javax.crypto,javax.crypto.spec,javax.net.ssl,javax.security.auth.x500,javax.security.cert,org.bouncycastle.asn1.pkcs;version="[1.69,2)";resolution:=optional,org.bouncycastle.asn1.x500;version="[1.69,2)";resolution:=optional,org.bouncycastle.cert;version="[1.69,2)";resolution:=optional,org.bouncycastle.cert.jcajce;version="[1.69,2)";resolution:=optional,org.bouncycastle.jce.provider;version="[1.69,2)";resolution:=optional,org.bouncycastle.openssl;version="[1.69,2)";resolution:=optional,org.bouncycastle.openssl.jcajce;version="[1.69,2)";resolution:=optional,org.bouncycastle.operator;version="[1.69,2)";resolution:=optional,org.bouncycastle.operator.jcajce;version="[1.69,2)";resolution:=optional,org.bouncycastle.pkcs;version="[1.69,2)";resolution:=optional,org.conscrypt;version="[2.5,3)";resolution:=optional,sun.nio.ch;resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.handler.address;uses:="io.netty.channel,io.netty.resolver";version="4.1.86",io.netty.handler.flow;uses:="io.netty.channel";version="4.1.86",io.netty.handler.flush;uses:="io.netty.channel";version="4.1.86",io.netty.handler.ipfilter;uses:="io.netty.channel";version="4.1.86",io.netty.handler.logging;uses:="io.netty.channel,io.netty.util.internal.logging";version="4.1.86",io.netty.handler.pcap;uses:="io.netty.channel";version="4.1.86",io.netty.handler.ssl;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.util,io.netty.util.concurrent,javax.crypto,javax.net.ssl";version="4.1.86",io.netty.handler.ssl.ocsp;uses:="io.netty.channel,io.netty.handler.ssl";version="4.1.86",io.netty.handler.ssl.util;uses:="javax.net.ssl,javax.security.auth.x500,javax.security.cert";version="4.1.86",io.netty.handler.stream;uses:="io.netty.buffer,io.netty.channel";version="4.1.86",io.netty.handler.timeout;uses:="io.netty.channel";version="4.1.86",io.netty.handler.traffic;uses:="io.netty.channel,io.netty.util.concurrent";version="4.1.86"  
Bundle-Name: Netty/Handler  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252



Implementation-URL: <https://netty.io/netty-handler/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http2-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec-http2/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/native-image/io.netty/netty-transport/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec-http/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/native-image/io.netty/netty-buffer/native-image.properties

\*

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/native-image/io.netty/netty-common/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-4-1-86-final-jar/META-INF/native-image/io.netty/netty-codec/native-image.properties

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-handler-4-1-86-final-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties

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Manifest-Version: 1.0

Implementation-Title: Netty/Codec/Socks

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.socks

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec.socks

Implementation-Version: 4.1.86.Final

Built-By: root

Bnd-LastModified: 1670851140833

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.handler.codec,io.netty.util;version="[4.1,5)"

,io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logg

ing;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.handler.codec.socks;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.codec.socksx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx.v5";version="4.1.86",io.netty.handler.codec.socksx.v4;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx";version="4.1.86",io.netty.handler.codec.socksx.v5;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.socksx";version="4.1.86"  
Bundle-Name: Netty/Codec/Socks  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_352  
Implementation-URL: <https://netty.io/netty-codec-socks/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-socks-4-1-86-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<artifactId>jctools-core</artifactId>
```

```
<groupId>org.jctools</groupId>
```

```
<version>3.1.0</version>
```

```
<name>Java Concurrency Tools Core Library</name>
```

```
<description>Java Concurrency Tools Core Library</description>
```

```
<packaging>bundle</packaging>
```

```
<dependencies>
```

```
<dependency>
```

```
<groupId>org.hamcrest</groupId>
```

```
<artifactId>hamcrest-all</artifactId>
```

```
<version>${hamcrest.version}</version>
```

```
<scope>test</scope>
```

```
</dependency>
```

```
<dependency>
```

```
<groupId>junit</groupId>
```

```
<artifactId>junit</artifactId>
```

```

<version>${junit.version}</version>
<scope>test</scope>
</dependency>

<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava-testlib</artifactId>
  <version>${guava-testlib.version}</version>
  <scope>test</scope>
</dependency>
</dependencies>
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.0.0-M3</version>
      <configuration>
        <includes>
          <include>*</include>
        </includes>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.felix</groupId>
      <artifactId>maven-bundle-plugin</artifactId>
      <version>4.2.1</version>
      <extensions>>true</extensions>
      <configuration>
        <instructions>
          <Import-Package>sun.misc;resolution:=optional</Import-Package>
        </instructions>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>3.2.0</version>
      <executions>
        <execution>
          <id>attach-sources</id>
          <phase>verify</phase>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>

```

```

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/?publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>

```

```

<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

Found

in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-common-4-1-86-final-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

No license file was found, but licenses were detected in source scan.

<!--

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~

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~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the  
~ License for the specific language governing permissions and limitations  
~ under the License.  
-->

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-native-unix-common-4-1-86-final-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Codec

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855178734

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.aayushatharva.brotli4j;resolution:=optional,com.aayushatharva.brotli4j.decoder;resolution:=optional,com.aayushatharva.brotli4j.encoder;resolution:=optional,com.github.luben.zstd;version="[1.5,2)";resolution:=optional,com.google.protobuf;version="[2.6,3)";resolution:=optional,com.google.protobuf.nano;resolution:=optional,com.jcraft.jzlib;resolution:=optional,com.ning.compress;version="[1.0,2)";resolution:=optional,com.ning.compress.lzf;version="[1.0,2)";resolution:=optional,com.ning.compress.lzf.util;version="[1.0,2)";resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.socket;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",lzma.sdk;resolution:=optional,lzma.sdk.lzma;resolution:=optional,net.jpountz.lz4;resolution:=optional,net.jpountz.xxhash;resolution:=optional,org.jboss.marshalling;resolution:=optional,sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution

:=optional,org.eclipse.jetty.alpn;version="[1,2]";resolution:=optiona  
l  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package:  
io.netty.handler.codec;uses:="io.netty.buffer,io.netty  
.channel,io.netty.channel.socket,io.netty.util";version="4.1.86",io.n  
etty.handler.codec.base64;uses:="io.netty.buffer,io.netty.channel,io.  
netty.handler.codec";version="4.1.86",io.netty.handler.codec.bytes;us  
es:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version  
="4.1.86",io.netty.handler.codec.compression;uses:="com.aayushatharva  
.brotli4j.encoder,io.netty.buffer,io.netty.channel,io.netty.handler.c  
odec,net.jpountz.lz4";version="4.1.86",io.netty.handler.codec.json;us  
es:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version  
="4.1.86",io.netty.handler.codec.marshalling;uses:="io.netty.buffer,i  
o.netty.channel,io.netty.handler.codec,org.jboss.marshalling";version  
="4.1.86",io.netty.handler.codec.protobuf;uses:="com.google.protobuf,  
com.google.protobuf.nano,io.netty.buffer,io.netty.channel,io.netty.ha  
ndler.codec";version="4.1.86",io.netty.handler.codec.serialization;us  
es:="io.netty.buffer,io.netty.channel,io.netty.handler.codec";version  
="4.1.86",io.netty.handler.codec.string;uses:="io.netty.buffer,io.net  
ty.channel,io.netty.handler.codec";version="4.1.86",io.netty.handler.  
codec.xml;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.co  
dec";version="4.1.86"  
Bundle-Name: Netty/Codec  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-codec/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-4-1-86-final-jar/META-  
INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Codec/HTTP

Bundle-Description: Netty is an asynchronous event-driven network appl  
ication framework for rapid development of maintainable high perfo  
rmance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.http

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-http

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855212920

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,com.jcraft.jzlib;resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.handler.codec.http;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http.cookie,io.netty.handler.stream,io.netty.util";version="4.1.86",io.netty.handler.codec.http.cookie;version="4.1.86",io.netty.handler.codec.http.cors;uses:="io.netty.channel,io.netty.handler.codec.http";version="4.1.86",io.netty.handler.codec.http.multipart;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util";version="4.1.86",io.netty.handler.codec.http.websocketx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util,io.netty.util.internal.logging";version="4.1.86",io.netty.handler.codec.http.websocketx.extensions;uses:="io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http.websocketx";version="4.1.86",io.netty.handler.codec.http.websocketx.extensions.compression;uses:="io.netty.channel,io.netty.handler.codec.http.websocketx.extensions";version="4.1.86",io.netty.handler.codec.rtsp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.util";version="4.1.86",io.netty.handler.codec.spdy;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.util";version="4.1.86"  
Bundle-Name:  
Netty/Codec/HTTP  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-codec-http/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-codec-http-4-1-86-final-jar/META-INF/MANIFEST.MF



No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Implementation-Title: Netty/Transport  
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.  
Automatic-Module-Name: io.netty.transport  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>  
Bundle-SymbolicName: io.netty.transport  
Implementation-Version: 4.1.86.Final  
Built-By: norman  
Bnd-LastModified: 1670855167311  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.resolver;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.resolver,io.netty.util";version="4.1.86",io.netty.channel;uses:="io.netty.bootstrap,io.netty.buffer,io.netty.util,io.netty.util.concurrent";version="4.1.86",io.netty.channel.embedded;uses:="io.netty.channel";version="4.1.86",io.netty.channel.group;uses:="io.netty.channel,io.netty.util.concurrent";version="4.1.86",io.netty.channel.internal;version="4.1.86",io.netty.channel.local;uses:="io.netty.channel";version="4.1.86",io.netty.channel.nio;uses:="io.netty.buffer,io.netty.channel,io.netty.util,io.netty.util.concurrent";version="4.1.86",io.netty.channel.oio;uses:="io.netty.buffer,io.netty.channel";version="4.1.86",io.netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel,io.netty.util.concurrent";version="4.1.86",io.netty.channel.socket;uses:="io.netty.buffer,io.netty.channel,io.netty.util";version="4.1.86",io.netty.channel.socket.nio;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.nio,io.netty.channel.socket";version="4.1.86",io.netty.channel.socket.oio;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.oio,io.netty.channel.socket";version="4.1.86"  
Bundle-Name: Netty/Transport  
Bundle-Version: 4.1.86.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: <https://netty.io/netty-transport/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-transport-4-1-86-final-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Implementation-Title: Netty/Buffer

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.buffer

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.buffer

Implementation-Version: 4.1.86.Final

Built-By: norman

Bnd-LastModified: 1670855150807

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability:

osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.buffer;uses:="io.netty.util";version="4.1.86",io.netty.buffer.search;uses:="io.netty.util";version="4.1.86"

Bundle-Name: Netty/Buffer

Bundle-Version: 4.1.86.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://netty.io/netty-buffer/>

Found in path(s):

\* /opt/cola/permits/1509095589\_1671715267.5524309/0/netty-zip/netty/netty-buffer-4-1-86-final-jar/META-INF/MANIFEST.MF

## 1.203 netty-handler 4.1.86.Final

## 1.203.1 Available under license :

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```
/*
 * Copyright 2012 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
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 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
*
/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
```

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2018 The Netty Project
 *
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 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
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 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
```

Found in path(s):

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java  
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jar/io/netty/handler/ssl/SslContextBuilder.java  
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jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
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jar/io/netty/handler/ssl/ClientAuth.java  
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jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
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- \* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
- \*
- /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
- \* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
- \* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
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- \* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
- \* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
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- /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslUtils.java
- \* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
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- \* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
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jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
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jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
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jar/io/netty/handler/ipfilter/IpFilterRuleType.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/CipherSuiteFilter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
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jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
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jar/io/netty/handler/ssl/SniHandler.java  
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jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java  
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jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/JdkSslEngine.java  
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jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
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jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
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jar/io/netty/handler/ssl/JdkSslClientContext.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java

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/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java  
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jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslContextOption.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
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/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
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jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/package-info.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/package-info.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/logging/LogLevel.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedStream.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java

\*

/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/logging/package-info.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedInput.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedFile.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java

\*

/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/package-info.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/timeout/IdleState.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/package-info.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-

jar/io/netty/handler/timeout/ReadTimeoutException.java

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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java

\*

/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/flow/package-info.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java

\*

/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/flush/package-info.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/PemValue.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java  
\*  
/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java  
\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java  
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*/
// Try the OpenJDK's proprietary implementation.
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* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
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* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/BouncyCastlePemReader.java
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\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java

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jar/io/netty/handler/pcap/EthernetPacket.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/pcap/PcapWriter.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/pcap/package-info.java

\*

/opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/pcap/PcapHeaders.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/pcap/IPPacket.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/pcap/PcapWriteHandler.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/pcap/UDPPacket.java

\* /opt/cola/permits/1509095619\_1671044640.6558812/0/netty-handler-4-1-86-final-sources-  
jar/io/netty/handler/pcap/TCPpacket.java

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jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
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jar/io/netty/handler/ssl/SslCompletionEvent.java
```

```
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
```

```
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
```

```
*
 /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/Conscrypt.java
```

```
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
```

```
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/SslClientHelloHandler.java
*
/opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1509095619_1671044640.6558812/0/netty-handler-4-1-86-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
```

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jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
*
/opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
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jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
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jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/FullHttpRequest.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
*
/opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/FullHttpMessage.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
*
/opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/FullHttpResponse.java
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jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
*
/opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java  
\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java  
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/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java  
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/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java  
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- \* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
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- /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
- \* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
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- \* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
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jar/io/netty/handler/codec/http/CookieDecoder.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/HttpVersion.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/rtsp/package-info.java
* /opt/cola/permits/1509095605_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-
jar/io/netty/handler/codec/http/HttpResponseDecoder.java
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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java

\*

/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java

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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValidationUtil.java

\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMixedHttpData.java

\*

/opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/TooLongHttpLineException.java

\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/TooLongHttpContentException.java

\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/TooLongHttpHeaderException.java

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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java

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jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java

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\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/CompressionEncoderFactory.java

\* /opt/cola/permits/1509095605\_1671044635.8033464/0/netty-codec-http-4-1-86-final-sources-jar/io/netty/handler/codec/http/HttpMessageDecoderResult.java

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## 1.205 netty-resolver 4.1.86.Final

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\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/HostsFileEntriesProvider.java

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\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

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/opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/package-info.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/NameResolver.java

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\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

\*

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\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/DefaultNameResolver.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/InetNameResolver.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/AddressResolver.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/HostsFileParser.java

\* /opt/cola/permits/1509095582\_1671044586.3678293/0/netty-resolver-4-1-86-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java

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# 1.206 netty-codec 4.1.86.Final

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/json/package-info.java

\*

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
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/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\*  
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\* Enumeration of supported Base64 dialects.

\* <p>

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\* Base64 Encoder/Decoder</a>.

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Found in path(s):

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/META-INF/native-image/io.netty/netty-codec/native-image.properties

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Found in path(s):

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/DefaultHeaders.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/EmptyHeaders.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/Headers.java

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Found in path(s):

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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* under the License.
*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for { @link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

```

Found in path(s):

```

* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codecs/base64/Base64.java

```

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* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
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* under the License.
*/
/**
* A decoder that splits the received { @link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*/

```

\*  
 <p>  
 \* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so  
 \* that it can decode any message with a length field, which is often seen in  
 \* proprietary client-server protocols. Here are some example that will give  
 \* you the basic idea on which option does what.

\*  
 \* <h3>2 bytes length field at offset 0, do not strip header</h3>  
 \*  
 \* The value of the length field in this example is <tt>12 (0x0C)</tt> which  
 \* represents the length of "HELLO, WORLD". By default, the decoder assumes  
 \* that the length field represents the number of the bytes that follows the  
 \* length field. Therefore, it can be decoded with the simplistic parameter  
 \* combination.

\* <pre>  
 \* <b>lengthFieldOffset</b> = <b>0</b>  
 \* <b>lengthFieldLength</b> = <b>2</b>  
 \* lengthAdjustment = 0  
 \* initialBytesToStrip = 0 (= do not strip header)  
 \*  
 \* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)  
 \* +-----+-----+      +-----+-----+  
 \* | Length | Actual Content  
 \* |---->| Length | Actual Content |  
 \* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |  
 \* +-----+-----+      +-----+-----+  
 \* </pre>

\*  
 \* <h3>2 bytes length field at offset 0, strip header</h3>  
 \*  
 \* Because we can get the length of the content by calling  
 \* { @link ByteBuf#readableBytes() }, you might want to strip the length  
 \* field by specifying <tt>initialBytesToStrip</tt>. In this example, we  
 \* specified <tt>2</tt>, that is same with the length of the length field, to  
 \* strip the first two bytes.

\* <pre>  
 \* lengthFieldOffset = 0  
 \* lengthFieldLength = 2  
 \* lengthAdjustment = 0  
 \* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)  
 \*  
 \* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)  
 \* +-----+-----+      +-----+  
 \* | Length | Actual Content |---->| Actual Content |  
 \* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |  
 \* +-----+-----+      +-----+  
 \* </pre>  
 \*

\* **2 bytes length field at offset 0, do not strip header, the length field**  
 \* represents the length of the whole message

\*  
 \* In most cases, the length field represents the length of the message body  
 \* only, as shown in the previous examples. However, in some protocols, the  
 \* length field represents the length of the whole message, including the  
 \* message header. In such a case, we specify a non-zero  
 \* `lengthAdjustment`. Because the length value in this example message  
 \* is always greater than the body length by `2`, we specify `-2`  
 \* as `lengthAdjustment` for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
```

```
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual
  Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
```

\* **3 bytes length field at the end of 5 bytes header, do not strip header**

\* The following message is a simple variation of the first example. An extra  
 \* header value is prepended to the message. `lengthAdjustment` is zero  
 \* again because the decoder always takes the length of the prepended data into  
 \* account during frame length calculation.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
```

```
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
```

\* **3 bytes length field at the beginning of 5 bytes header, do not strip header**

\* This is an advanced example that shows the case where there is an extra  
 \* header between the length field and the message body. You have to specify a

\* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```

* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |    | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
* LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |    | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.

```



```

* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)           AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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```

* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
*

```

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\*

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java

\*

/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java

\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-

jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DecoderException.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java

```

* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/DecoderResult.java
*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/package-info.java
*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolver.java
*
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/compression/CompressionException.java
*

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/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/CodecException.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/base64/package-info.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/package-info.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/bytes/package-info.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-

jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/string/package-info.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/EncoderException.java  
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* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
*  
/opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/ZstdOptions.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/BrotliEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/StandardCompressionOptions.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/BrotliDecoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/ZstdEncoder.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/Zstd.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/DeflateOptions.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/BrotliOptions.java  
\*  
/opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/Brotli.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/GzipOptions.java  
\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-  
jar/io/netty/handler/codec/compression/ZstdConstants.java  
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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java

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\* /opt/cola/permits/1509095575\_1671044644.0113554/0/netty-codec-4-1-86-final-sources-jar/io/netty/handler/codec/DateFormatter.java

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jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1509095575_1671044644.0113554/0/netty-codec-4-1-86-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
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jar/io/netty/bootstrap/FailedChannel.java  
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jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
\*  
/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/PendingBytesTracker.java  
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jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
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jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java  
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jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java  
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jar/io/netty/channel/internal/ChannelUtils.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
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/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
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jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java  
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jar/io/netty/bootstrap/ChannelFactory.java  
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jar/io/netty/channel/ChannelProgressivePromise.java  
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jar/io/netty/channel/ChannelProgressiveFuture.java  
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jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
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jar/io/netty/channel/DefaultAddressedEnvelope.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/ChannelId.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/MessageSizeEstimator.java  
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jar/io/netty/channel/group/ChannelGroupException.java  
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jar/io/netty/channel/group/ChannelMatchers.java  
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jar/io/netty/channel/DefaultChannelProgressivePromise.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/SimpleChannelInboundHandler.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/DefaultChannelId.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-  
jar/io/netty/channel/AbstractEventLoopGroup.java

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jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
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/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
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* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
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/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
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* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/socket/nio/NioSocketChannel.java
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* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/AbstractServerChannel.java
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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/Bootstrap.java  
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jar/io/netty/channel/Channel.java
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* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java
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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-

```
jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
*
/opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1509095609_1671044607.123572/0/netty-transport-4-1-86-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
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\*

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/PendingWriteQueue.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelFactory.java

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }.
*
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{ @link
ChannelInboundHandler } to handle inbound I/O events, and</li>
* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>

```

```

* public interface Message {
*   // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt; Message &gt; {
*
*   <b>private boolean loggedIn;</b>
*
*   { @code @Override }
*   public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) message);
*       <b>loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*       if (<b>loggedIn</b>) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*       } else {
*         fail();
*       }
*     }
*   }
* }
* ...
* }
* </pre>

```

\* Because the handler instance has a state variable which is dedicated to
\* one connection, you have to create a new handler instance for each new
\* channel to avoid a race condition where a unauthenticated client can get
\* the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {
*   { @code @Override }
*   public void initChannel({ @link Channel } channel) {
*     channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*   }
* }
*
* </pre>

```

\* <h4>Using { @link AttributeKey }s</h4>

\* Although it's recommended to use member variables to store the state of a
\* handler, for some reason you might not want to create many handler instances.
\* In such a case, you can use { @link AttributeKey }s which is provided by
\* { @link ChannelHandlerContext }:

```

* <pre>
* public interface Message {
*   // your methods here
* }
*
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;&Message&gt; {
*   private final { @link AttributeKey}&lt;&{ @link Boolean}&gt; auth =
*     { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*   { @code @Override }
*   public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*     { @link Attribute}&lt;&{ @link Boolean}&gt; attr = ctx.attr(auth);
*     if (message instanceof LoginMessage) {
*       authenticate((LoginMessage) o);
*       <b>attr.set(true)</b>;
*     } else (message instanceof GetDataMessage) {
*       if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*       } else {
*         fail();
*       }
*     }
*   }
* }
* ...
* }
* </pre>

```

\* Now that the

state of the handler is attached to the { @link ChannelHandlerContext}, you can add the

\* same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&{ @link Channel}&gt; {
*
*   private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*   { @code @Override }
*   public void initChannel({ @link Channel} channel) {
*     channel.pipeline().addLast("handler", <b>SHARED</b>);
*   }
* }
* </pre>

```

\*

\*

\* <h4>The { @code @Sharable} annotation</h4>

\* <p>

\* In the example above which used an { @link AttributeKey},

\* you might have noticed the { @code @Sharable} annotation.

\* <p>



- \* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
- \* annotation, it means you can create an instance of the handler just once and
- \* add it to one or more { @link ChannelPipeline }s multiple times without
- \* a race condition.
- \* <p>
- \* If this annotation is not specified, you have to create
- a new handler
- \* instance every time you add it to a pipeline because it has unshared state
- \* such as member variables.
- \* <p>
- \* This annotation is provided for documentation purpose, just like
- \* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
- \* <p>
- \* <h3>Additional resources worth reading</h3>
- \* <p>
- \* Please refer to the { @link ChannelHandler }, and
- \* { @link ChannelPipeline } to find out more about inbound and outbound operations,
- \* what fundamental differences they have, how they flow in a pipeline, and how to handle
- \* the operation in your application.
- \* /

Found in path(s):

\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java  
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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java  
\*  
/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/SelectStrategy.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java  
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\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/SelectStrategyFactory.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java  
\*  
/opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java  
\* /opt/cola/permits/1509095609\_1671044607.123572/0/netty-transport-4-1-86-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java

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* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_util.h
*
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* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_util.c
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_limits.c
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\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/UnixChannel.java  
\*  
/opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/Socket.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/netty\_unix\_socket.h  
\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/netty\_unix\_socket.c  
\*

/opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java

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\*

/opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/IovArray.java

\* /opt/cola/permits/1509095595\_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java

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```
jar/io/netty/channel/unix/RawUnixChannelOption.java
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/IntegerUnixChannelOption.java
*
/opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/GenericUnixChannelOption.java
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* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/netty_unix_buffer.h
*
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jar/netty_unix_buffer.c
* /opt/cola/permits/1509095595_1671044615.8406854/0/netty-transport-native-unix-common-4-1-86-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
```

## 1.209 slf4j 1.7.36

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## 1.211 netty-transport-classes-epoll

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\* /opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java

\*

/opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java

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/\*\*

\* Set the { @code TCP\_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.

\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

/\*\*

\* Set the { @code TCP\_QUICKACK } option on the socket.

\* See [TCP\\_QUICKACK](https://linux.die.net/man/7/tcp)

\* for more details.

\*/

Found in path(s):

\* /opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
```

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```
*/opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1518493128_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-
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\* /opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java  
\*  
/opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/package-info.java  
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\* /opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java  
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\* /opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java  
\* /opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java  
\*  
/opt/cola/permits/1518493128\_1671636502.660997/0/netty-transport-classes-epoll-4-1-86-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java  
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## 1.212 netty-handler-proxy 4.1.86.Final

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\* /opt/cola/permits/1518493252\_1671636487.1565955/0/netty-handler-proxy-4-1-86-final-sources-jar/io/netty/handler/proxy/package-info.java  
\*  
/opt/cola/permits/1518493252\_1671636487.1565955/0/netty-handler-proxy-4-1-86-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java  
\* /opt/cola/permits/1518493252\_1671636487.1565955/0/netty-handler-proxy-4-1-86-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java  
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* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainDatagramChannelConfig.java
*
/opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-
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\* /opt/cola/permits/1518493238\_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java

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jar/io/netty/channel/kqueue/KQueueChannelConfig.java
*
/opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-
jar/io/netty/channel/kqueue/package-info.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-
jar/io/netty/channel/kqueue/AcceptFilter.java
* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-
jar/io/netty/channel/kqueue/NativeLongArray.java
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* /opt/cola/permits/1518493238_1671636482.3908947/0/netty-transport-classes-kqueue-4-1-86-final-sources-
jar/META-INF/maven/io.netty/netty-transport-classes-kqueue/pom.xml
```

## 1.214 netty-codec-socks 4.1.86.Final

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\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java

\*

/opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java

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\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java

\*

/opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java

\*

/opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java

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jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
*
/opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
*
/opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
```

jar/io/netty/handler/codec/socksx/SocksVersion.java  
\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java  
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* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java  
*  
/opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java  
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java  
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java  
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java  
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java  
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java  
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java  
*  
/opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java  
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java  
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
```

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java

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\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java

\*

/opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java

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\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java

\*

/opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/package-info.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java

\*

/opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/package-info.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java

\* /opt/cola/permits/1518493177\_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-

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jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
*
/opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socks/SocksResponse.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
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jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
*
/opt/cola/permits/1518493177_1671636475.3672323/0/netty-codec-socks-4-1-86-final-sources-
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## 1.215 jose4j 0.6.3

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\*  
/opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/base64url/internal/apache/commons/codec/binary/Base64.java  
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\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwk/VerificationJwkSelector.java  
\*  
/opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/resolvers/VerificationKeyResolver.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwe/Pbes2HmacShaWithAesKeyWrapAlgorithm.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwa/AlgorithmConstraints.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/resolvers/HttpsJwksVerificationKeyResolver.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/lang/UncheckedJoseException.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/json/JsonUtil.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwe/KeyManagementAlgorithmIdentifiers.java  
\*  
/opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/mac/MacUtil.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/X509Util.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwt/consumer/ErrorCodes.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwe/AesGcmKeyEncryptionAlgorithm.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/lang/DefaultByteGenerator.java  
\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-

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jar/org/jose4j/jwe/WrappingKeyManagementAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/ContentEncryptionAlgorithmIdentifiers.java
*
/opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/EcdhKeyAgreementWithAesKeyWrapAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/lang/ByteUtil.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwt/JwtClaims.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwa/AlgorithmFactory.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/JsonWebEncryption.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/EcdhKeyAgreementAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jws/JsonWebSignatureAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/lang/InvalidAlgorithmException.java
*
/opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwk/Use.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jws/AlgorithmIdentifiers.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/JsonWebKey.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwt/consumer/Validator.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwe/CipherUtil.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jws/PlaintextNoneAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/AesCbcHmacSha2ContentEncryptionAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/AesKeyWrapManagementAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwt/GeneralJwtException.java
*
/opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/KeyOperations.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/RsaJwkGenerator.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/base64url/SimplePEMEncoder.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwx/Headers.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/keys/resolvers/JwksVerificationKeyResolver.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-

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jar/org/jose4j/jwe/KeyManagementAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/ContentEncryptionHelp.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/lang/JoseException.java
*
/opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwa/AlgorithmFactoryFactory.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/AesGcmContentEncryptionAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwt/consumer/InvalidJwtException.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwa/Algorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwx/JsonWebStructure.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/lang/BouncyCastleProviderHelp.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
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* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/PbkdfKey.java
*
/opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/RsaKeyManagementAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwt/consumer/SubValidator.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
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* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwt/ReservedClaimNames.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/EllipticCurveJsonWebKey.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwt/consumer/SimpleKeyResolver.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/keys/KeyPersuasion.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/keys/BigEndianBigInteger.java
*
/opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/OctetSequenceJsonWebKey.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jws/JsonWebSignature.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/EcJwkGenerator.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwk/HttpsJwks.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-

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jar/org/jose4j/jwt/consumer/NumericDateValidator.java  
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 jar/org/jose4j/keys/EllipticCurves.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/lang/IntegrityException.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/jwe/ContentEncryptionKeyDescriptor.java  
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 /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/lang/ExceptionHelp.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/HmacKey.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/jwx/CompactSerializer.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/zip/CompressionAlgorithmIdentifiers.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/jwt/consumer/JtiValidator.java  
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 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/lang/JsonHelp.java  
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 jar/org/jose4j/jwt/consumer/IssValidator.java  
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 /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/KeyPairUtil.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/jwt/MalformedClaimException.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/keys/RsaKeyUtil.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java  
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 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/jwa/AlgorithmInfo.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
 jar/org/jose4j/jwe/DirectKeyManagementAlgorithm.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-  
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 jar/org/jose4j/jwt/consumer/JweCustomizer.java  
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 jar/org/jose4j/jwx/HeaderParameterNames.java

\* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/http/SimpleGet.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwk/JsonWebKeySet.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jws/BaseSignatureAlgorithm.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwk/RsaJsonWebKey.java  
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 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwe/ContentEncryptionParts.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwt/consumer/JwtContext.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwt/consumer/AudValidator.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/resolvers/X509VerificationKeyResolver.java  
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 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwx/CompactSerialization.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwx/KeyValidationSupport.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwa/AlgorithmAvailability.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/keys/EcKeyUtil.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwt/IntDate.java  
 \*  
 /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/jwt/consumer/ErrorCodeValidator.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/lang/ByteGenerator.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/base64url/Base64Url.java  
 \* /opt/cola/permits/1534657383\_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/lang/HashUtil.java

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* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/http/Get.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-jar/org/jose4j/lang/StringUtil.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/zip/CompressionAlgorithm.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwt/consumer/JwsCustomizer.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunction.java
*
/opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jca/ProviderContext.java
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```

Found in path(s):

```
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/DecryptionJwkSelector.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/lang/InvalidKeyException.java
* /opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/SelectorSupport.java
*
/opt/cola/permits/1534657383_1673960510.7888486/0/jose4j-0-6-3-sources-1-
jar/org/jose4j/jwk/SimpleJwkFilter.java
```

# 1.216 netty-transport-native-epoll 4.1.86.Final

## 1.216.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1534815977\_1673960720.7817981/0/netty-transport-native-epoll-4-1-86-final-sources-1-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml  
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\* /opt/cola/permits/1534815977\_1673960720.7817981/0/netty-transport-native-epoll-4-1-86-final-sources-1-jar/netty\_epoll\_native.c  
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```
* /opt/cola/permits/1534815977_1673960720.7817981/0/netty-transport-native-epoll-4-1-86-final-sources-1-
jar/netty_epoll_linuxsocket.c
* /opt/cola/permits/1534815977_1673960720.7817981/0/netty-transport-native-epoll-4-1-86-final-sources-1-
jar/netty_epoll_linuxsocket.h
```

## 1.217 netty-transport-native-kqueue

### 4.1.86.Final

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```
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_bsdsocket.h
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_eventarray.h
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_eventarray.c
*
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-
jar/netty_kqueue_native.c
```

```
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-jar/netty_kqueue_bsdsocket.c
```

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```
* /opt/cola/permits/1534817009_1673963014.303444/0/netty-transport-native-kqueue-4-1-86-final-sources-1-jar/META-INF/maven/io.netty/netty-transport-native-kqueue/pom.xml
```

## 1.218 protobuf-java 3.21.12

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Manifest-Version: 1.0

Automatic-Module-Name: com.google.protobuf

Bnd-LastModified: 1671050201631

Build-Jdk: 11.0.13

Built-By: kfm

Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.

Bundle-DocURL: <https://developers.google.com/protocol-buffers/>

Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>

Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffers [Core]

Bundle-SymbolicName: com.google.protobuf

Bundle-Version: 3.21.12

Created-By: Apache Maven Bundle Plugin

Export-Package: com.google.protobuf;version="3.21.12"

Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.21,4)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /opt/cola/permits/1535600625\_1674018919.1448016/0/protobuf-java-3-21-12-jar/META-INF/MANIFEST.MF

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```
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-
jar/google/protobuf/compiler/plugin.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-
jar/google/protobuf/source_context.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-jar/google/protobuf/type.proto
*
/opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-jar/google/protobuf/api.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-
jar/google/protobuf/timestamp.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-jar/google/protobuf/duration.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-jar/google/protobuf/struct.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-jar/google/protobuf/empty.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-jar/google/protobuf/wrappers.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-jar/google/protobuf/any.proto
* /opt/cola/permits/1535600625_1674018919.1448016/0/protobuf-java-3-21-12-
jar/google/protobuf/descriptor.proto
```

## 1.219 busybox 1.36.0

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# 1.221 commons-fileupload 1.5

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- \* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
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jar/org/yaml/snakeyaml/introspector/MethodProperty.java  
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jar/org/yaml/snakeyaml/events/CollectionStartEvent.java  
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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-  
jar/org/yaml/snakeyaml/util/UriEncoder.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java

\*

/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/Yaml.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserException.java

\*

/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Representer.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedTagInspector.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java

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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/LoaderOptions.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedPrefixesTagInspector.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/Mark.java  
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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/YAMLEException.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/TypeDescription.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java  
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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/Token.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java  
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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/Composer.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java  
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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/internal/Logger.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-

jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/Event.java  
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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java  
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 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
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```
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

## 1.223 jackson-module-blackbird 2.13.4

### 1.223.1 Available under license :

```
# Jackson JSON processor
```

Jackson is a high-performance, Free/Open Source JSON processing library.



It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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## 1.224 jetty-http 9.4.51.v20230217

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Eclipse

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\* org.eclipse.jetty.orbit;org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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#### MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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#### Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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#### Apache

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- org.apache.taglibs:taglibs-standard-impl

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- org.mortbay.jasper:apache-jsp
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org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.227 swagger-jaxrs2 2.1.6

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 */
```

Found in path(s):

```
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/BooleanSchema.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/info/Info.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/ObjectSchema.java
*
/opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/Content.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/OpenAPI.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/ExternalDocumentation.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/NumberSchema.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/parameters/CookieParameter.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/ArraySchema.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/info/License.java
*
/opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/parameters/RequestBody.java
```

\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/security/SecurityScheme.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/media/StringSchema.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/tags/Tag.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/media/ComposedSchema.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/links/LinkParameter.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/responses/ApiResponse.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/examples/Example.java  
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\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/media/Schema.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/parameters/HeaderParameter.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/media/PasswordSchema.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/media/FileSchema.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/servers/Server.java  
\*  
/opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/PathItem.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/links/Link.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/parameters/QueryParameter.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/headers/Header.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/security/OAuthFlows.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/servers/ServerVariable.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/media/EmailSchema.java  
\*  
/opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-jar/io/swagger/v3/oas/models/media/DateTimeSchema.java  
\* /opt/cola/permits/1606579338\_1679420347.1852098/0/swagger-models-2-1-6-sources-1-

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jar/io/swagger/v3/oas/models/media/BinarySchema.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/ByteArraySchema.java
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jar/io/swagger/v3/oas/models/media/IntegerSchema.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/DateSchema.java
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jar/io/swagger/v3/oas/models/info/Contact.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/Components.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/callbacks/Callback.java
*
/opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
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jar/io/swagger/v3/oas/models/media/EncodingProperty.java
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jar/io/swagger/v3/oas/models/security/SecurityRequirement.java
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jar/io/swagger/v3/oas/models/Operation.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/UUIDSchema.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/parameters/Parameter.java
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/opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/MediaType.java
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jar/io/swagger/v3/oas/models/Paths.java
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jar/io/swagger/v3/oas/models/security/Scopes.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/XML.java
* /opt/cola/permits/1606579338_1679420347.1852098/0/swagger-models-2-1-6-sources-1-
jar/io/swagger/v3/oas/models/media/MapSchema.java

```

## 1.230 swagger-integration 2.1.6



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## 1.236 opentelemetry-proto 0.11.0

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/opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnIgnoredErrorEvent.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/internal/ClosedState.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerEvent.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/internal/HalfOpenState.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnErrorEvent.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/internal/CircuitBreakerState.java  
\*

/opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerRegistry.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerConfig.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnSuccessEvent.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnResetEvent.java  
\* /opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnStateTransitionEvent.java  
\*

/opt/cola/permits/1610149726\_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerOpenException.java  
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/\*

\*

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```

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*
*
*/

```

Found in path(s):

```

* /opt/cola/permits/1610149726_1679504940.9927049/0/resilience4j-circuitbreaker-0-13-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/CircuitBreaker.java

```

## 1.238 vavr 0.9.2

### 1.238.1 Available under license :

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```

/* _ _ _ _ _
* \ \ / / \ \ / / _/
* \ \ / / ^ \ \ / /
* \ \ / / \ \ / /
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*/

```

Found in path(s):

```

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function3.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/LinkedExceptionMultimap.java
*

```



```

/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction6.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/AbstractMultimap.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/BitMappedTrie.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/control/Validation.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/control/Option.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction1.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/CharSeq.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedRunnable.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/SortedMultimap.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/concurrent/GwtIncompatible.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/TreeMultimap.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/LinkedHashSet.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/SortedSet.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/Collections.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Lazy.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/HashMultimap.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple0.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/ArrayType.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/Comparators.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function8.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/BitSet.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function7.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple7.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/API.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/control/GwtIncompatible.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/HashSet.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function4.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Ordered.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple6.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/LinearSeq.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Predicates.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function0.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction8.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Lambda.java

```

\* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Array.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple5.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/control/Either.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple1.java  
 \*  
 /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/concurrent/GuardedBy.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Tree.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple8.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/concurrent/Promise.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Maps.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Stream.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple2.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/MatchError.java  
 \*  
 /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/AbstractIterator.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function2.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/RedBlackTree.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/JavaConverters.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Seq.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/TreeMap.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction7.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction4.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function1.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/PartialFunction.java  
 \*  
 /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/GwtIncompatible.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Vector.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function5.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Iterator.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Set.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Multimaps.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/PriorityQueue.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/concurrent/FutureImpl.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction5.java  
 \*  
 /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Foldable.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Multimap.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Traversable.java  
 \* /opt/cola/permits/1610149757\_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedConsumer.java

```

* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/IndexedSeq.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/control/Try.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/$.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/NotImplementedError.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/LinkedHashMap.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Value.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction2.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple4.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Map.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/SortedMap.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction3.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Tuple3.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/HashMapMappedTrie.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedPredicate.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/Queue.java
*
/opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/concurrent/Future.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/CheckedFunction0.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/TreeSet.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/AbstractQueue.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/List.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/collection/HashMap.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-
jar/io/vavr/collection/GwtIncompatible.java
* /opt/cola/permits/1610149757_1679504937.1964195/0/vavr-0-9-2-sources-1-jar/io/vavr/Function6.java

```

## 1.239 resilience4j-timelimiter 0.13.1

### 1.239.1 Available under license :

Apache-2.0

## 1.240 vavr-match 0.9.2

### 1.240.1 Available under license :

No license file was found, but licenses were detected in source scan.

```

/* _ _ _ _ _
* \ \ / \ \ / \ /
* \ \ / \ \ / \ /

```

```
* \_\_\_/\_\_\_ \_\_\_\_\_\_/\_\_\_
*
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* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/annotation/Patterns.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/generator/ImportManager.java
*
/opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/model/MethodModel.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/model/ParameterModel.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/UnapplyChecker.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/annotation/Unapply.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/model/ClassModel.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/model/TypeParameterModel.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/PatternsProcessor.java
* /opt/cola/permits/1610149123_1680160062.647855/0/vavr-match-0-9-2-sources-1-
jar/io/vavr/match/generator/Generator.java
```

# 1.241 resilience4j-core 0.13.1

## 1.241.1 Available under license :

Apache-2.0

# 1.242 geantyref 1.3.13

## 1.242.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0  
Bundle-Description: Generic type reflection library with support for AnnotatedType  
Automatic-Module-Name: io.leangen.geantyref  
Bundle-License: "The Apache Software License, Version 2.0";link="http://www.apache.org/licenses/LICENSE-2.0.txt"  
Bundle-SymbolicName: io.leangen.geantyref.geantyref  
Bnd-LastModified: 1636765501077  
Bundle-ManifestVersion: 2  
Bundle-DocURL: https://github.com/leangen/geantyref  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.0.0.202110041835  
Export-Package: io.leangen.geantyref;version="1.3.1"  
Bundle-Name: GeantyRef  
Bundle-Version: 1.3.13  
Bundle-SCM: url="https://github.com/leangen/geantyref",connection="scm:git:git://github.com/leangen/geantyref",developer-connection="scm:git:git://github.com/leangen/geantyref",tag="geantyref-v1.3.13"  
Build-Jdk-Spec: 1.8  
Created-By: 1.8.0\_281 (Oracle Corporation)

Found in path(s):

\* /opt/cola/permits/1613098431\_1680160085.8871405/0/geantyref-1-3-13-2-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>io.leangen.geantyref</groupId>
  <artifactId>geantyref</artifactId>
  <packaging>jar</packaging>
  <version>1.3.13</version>

  <inceptionYear>2016</inceptionYear>
  <name>GeantyRef</name>
  <url>https://github.com/leangen/geantyref</url>
  <description>Generic type reflection library with support for AnnotatedType</description>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>
</project>
```

```

    </license>
</licenses>

<scm>
  <connection>scm:git:git://github.com/leangen/geantyref</connection>
  <developerConnection>scm:git:git://github.com/leangen/geantyref</developerConnection>
  <url>https://github.com/leangen/geantyref</url>
  <tag>geantyref-v1.3.13</tag>
</scm>
<distributionManagement>
  <repository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
  </repository>
  <snapshotRepository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/content/repositories/snapshots</url>
  </snapshotRepository>
</distributionManagement>
<issueManagement>
  <system>GitHub Issue Tracking</system>
  <url>https://github.com/leangen/geantyref/issues</url>
</issueManagement>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.13.2</version>
    <scope>test</scope>
  </dependency>
</dependencies>

<build>
  <defaultGoal>package</defaultGoal>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.8.1</version>
      <configuration>
        <source>1.8</source>
        <target>1.8</target>
      </configuration>
    </plugin>
  </plugins>
</build>

```

```

</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-jar-plugin</artifactId>
  <version>3.2.0</version>
  <configuration>
    <archive>
      <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
      <manifestEntries>
        <Automatic-Module-Name>io.leangen.geantyref</Automatic-Module-Name>

      </manifestEntries>
    </archive>
  </configuration>
</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-release-plugin</artifactId>
  <version>2.5.3</version>
  <configuration>
    <goals>deploy</goals>
    <useReleaseProfile>>false</useReleaseProfile>
    <releaseProfiles>release</releaseProfiles>
    <pushChanges>>false</pushChanges>
    <tagNameFormat>geantyref-v@ {project.version}</tagNameFormat>
  </configuration>
</plugin>

<plugin>
  <groupId>biz.aQute.bnd</groupId>
  <artifactId>bnd-maven-plugin</artifactId>
  <version>6.0.0</version>
  <executions>
    <execution>
      <goals>
        <goal>bnd-process</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

<profiles>
  <profile>
    <id>release</id>

```

```

<build>
  <plugins>
    <plugin>
      <inherited>true</inherited>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-deploy-plugin</artifactId>
      <version>2.8.2</version>
      <configuration>
        <updateReleaseInfo>true</updateReleaseInfo>
      </configuration>
    </plugin>

    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>3.2.1</version>
      <executions>

<execution>
      <id>attach-sources</id>
      <phase>verify</phase>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>

    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>3.3.1</version>
      <executions>
        <execution>
          <id>attach-javadocs</id>
          <goals>
            <goal>jar</goal>
          </goals>
        </execution>
      </executions>
      <configuration>

<links>
        <link>https://docs.oracle.com/javase/8/docs/api/</link>
      </links>
      <version>true</version>
      <show>public</show>
    </configuration>
  </plugins>
</build>

```



```

</plugin>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <version>3.0.1</version>
  <executions>
    <execution>
      <id>sign-artifacts</id>
      <phase>verify</phase>
      <goals>
        <goal>sign</goal>
      </goals>
    </execution>
  </executions>
  <configuration>
    <useAgent>true</useAgent>
  </configuration>
</plugin>

<plugin>
  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.8</version>
  <extensions>true</extensions>
  <configuration>
    <serverId>ossrh</serverId>
    <nexusUrl>https://oss.sonatype.org/</nexusUrl>
    <autoReleaseAfterClose>true</autoReleaseAfterClose>
  </configuration>
</plugin>
</plugins>
</build>
</profile>
</profiles>

<developers>
  <developer>
    <name>Bojan Tomic</name>
    <email>veggen@gmail.com</email>
    <organization>Leangen</organization>
    <organizationUrl>http://leangen.io</organizationUrl>

  </developer>
</developers>
</project>

```

Found in path(s):

# 1.243 jetty-servlets 9.4.51.v20230217

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-----

Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

#### OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

-----

#### Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

-----

#### MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.244 jetty-continuation 9.4.51.v20230217

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay



The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.245 jetty-util-ajax 9.4.51.v20230217

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- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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## Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper  
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org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.247 jetty-security 9.4.51.v20230217

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c

lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

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kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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This package is currently maintained by Santiago Vila <sanvila@debian.org> and built from sources obtained from:

<ftp://ftp.info-zip.org/pub/infozip/src/unzip60.tgz>

The changes were fairly minimal, and consisted solely of adding various debian/\* files to the distribution, plus several miscellaneous fixes as reflected in the Debian changelog.

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Source: <https://github.com/Cyan4973/xxHash>

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Upstream-Name: GnuPG - The GNU Privacy Guard (modern version)

Upstream-Contact: GnuPG development mailing list <[gnupg-devel@gnupg.org](mailto:gnupg-devel@gnupg.org)>

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This debian package was first created by Michael Stone <mstone@debian.org>, from coreutils 4.5.1.

Changes:

- \* added Debian GNU/Linux package maintenance system files
- \* at times, bug fixes awaiting inclusion in the upstream source

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lib/fts.c

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Upstream-Contact: [bug-ncurses@gnu.org](mailto:bug-ncurses@gnu.org)

Thomas Dickey <[dickey@his.com](mailto:dickey@his.com)>

Source: <https://invisible-mirror.net/archives/ncurses/>

Files: \*

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Anthony Green <green@redhat.com>

GCC developers

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This is the Debian GNU/Linux prepackaged version of the Python programming  
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This package was put together by Klee Dienes <klee@debian.org> from  
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Python was created in the early 1990s by Guido van Rossum at Stichting  
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National

Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | 1991-1995    | CWI       | yes        |                     |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.4.1 | 2.4   | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |

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Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>

Source: <https://github.com/thkukuk/libnsl>

Files: debian/\*

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configure.ac

config.h.in

libnsl.pc.in

Makefile.am

NEWS

README

src/Makefile.am

src/do\_ypcall.c

src/internal.h

src/libnsl.map

src/nisplus/nis\_error.c

src/taddr2host.c

src/taddr2ipstr.c

src/taddr2port.c

src/yp\_first.c

src/yp\_get\_default\_domain.c

src/yp\_maplist.c

src/yp\_master.c



src/yp\_match.c  
src/yp\_next.c  
src/yp\_order.c  
src/ypbinderr\_string.c  
src/yperr\_string.c  
src/ypprot\_err.c

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Files: src/libc-lock.h

src/nisplus/nis\_add.c  
src/nisplus/nis\_addmember.c  
src/nisplus/nis\_call.c  
src/nisplus/nis\_callback.c  
src/nisplus/nis\_checkpoint.c  
src/nisplus/nis\_clone\_dir.c  
src/nisplus/nis\_clone\_obj.c  
src/nisplus/nis\_clone\_res.c  
src/nisplus/nis\_creategroup.c  
src/nisplus/nis\_defaults.c  
src/nisplus/nis\_destroygroup.c  
src/nisplus/nis\_domain\_of.c  
src/nisplus/nis\_domain\_of\_r.c  
src/nisplus/nis\_file.c  
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src/nisplus/nis\_free.c  
src/nisplus/nis\_getservlist.c  
src/nisplus/nis\_hash.c  
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src/nisplus/nis\_print\_group\_entry.c  
src/nisplus/nis\_remove.c  
src/nisplus/nis\_removemember.c  
src/nisplus/nis\_rmdir.c  
src/nisplus/nis\_server.c  
src/nisplus/nis\_subr.c  
src/nisplus/nis\_table.c  
src/nisplus/nis\_util.c  
src/nisplus/nis\_verifygroup.c  
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src/nisplus/nis\_xdr.h  
src/rpcsvc/nislib.h

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Files: src/rpcsvc/nis\_callback.h  
src/rpcsvc/nis\_callback.x  
src/rpcsvc/nis\_object.x  
src/rpcsvc/nis\_tags.h  
src/rpcsvc/nis.h  
src/rpcsvc/nis.x  
src/rpcsvc/yp.h  
src/rpcsvc/yp.x  
src/rpcsvc/yp\_prot.h  
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src/rpcsvc/yppasswd.x  
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src/yp\_xdr.c

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missing  
test-driver  
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Files: config.rpath

m4/gettext.m4

m4/host-cpu-c-abi.m4

m4/iconv.m4

m4/intlmacosx.m4

m4/lib-ld.m4

m4/lib-link.m4

m4/lib-prefix.m4

m4/libtool.m4

m4/ltoptions.m4

m4/ltsugar.m4

m4/ltversion.m4

m4/lt~obsolete.m4

m4/nls.m4

m4/po.m4

m4/progtest.m4

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Files: ABOUT-NLS

po/Makefile.in.in

po/Makevars

po/POTFILES.in

po/Rules-quot

po/boldquot.sed

po/en@boldquot.header

po/en@quot.header

po/insert-header.sin

po/libnsl.pot

po/quot.sed

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po/stamp-po

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Some parts substantially in src/su.c derived from an ancestor of su for GNU. Run a shell with substitute user and group IDs.

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vms/vmsish.h

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Files:

dist/autouse/\*

dist/base/\*

dist/constant/\*

dist/Devel-SelfStubber/\*

dist/Dumpvalue/\*

dist/Env/\*

cpan/ExtUtils-Manifest/\*

dist/I18N-Collate/\*

dist/Safe/\*

ext/Fcntl/\*

ext/FileCache/\*

ext/GDBM\_File/\*

ext/IPC-Open3/\*

ext/NDBM\_File/\*

ext/ODBM\_File/\*

ext/Opcode/\*

ext/PerlIO-encoding/\*

ext/PerlIO-scalar/\*

ext/PerlIO-via/\*

ext/POSIX/\*

ext/re/\*

cpan/Socket/\*

ext/Sys-Hostname/\*

ext/Tie-Hash-NamedCapture/\*

ext/Tie-Memoize/\*  
ext/VMS-DCLsym/\*  
ext/VMS-Stdio/\*

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cpan/autodie/lib/autodie/exception/system.pm  
cpan/autodie/lib/autodie/exception.pm  
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cpan/autodie/lib/autodie/Util.pm  
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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta\_1\_1.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta\_1\_2.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta\_1\_3.pod

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Files:

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cpan/Locale-Maketext-Simple/t/po\_with\_i\_default/fr.po

cpan/Locale-Maketext-Simple/t/po\_with\_i\_default/en.po

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Files:

cpan/podlators/t/data/snippets/README

cpan/podlators/t/data/basic.cap

cpan/podlators/t/data/basic.clr

cpan/podlators/t/data/basic.man

cpan/podlators/t/data/basic.ovr

cpan/podlators/t/data/basic.pod

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cpan/podlators/t/docs/pod.t

cpan/podlators/t/docs/synopsis.t

cpan/podlators/t/lib/Test/RRA.pm

cpan/podlators/t/lib/Test/RRA/Config.pm

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bzip2/libbzip2 version 1.0.5 of 10 December 2007



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support/man2html.c

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Upstream-Author: Stepan Roh <src@users.sourceforge.net> (original author),  
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Source: <https://dejavu-fonts.github.io/>

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Source: <https://github.com/facebook/zstd>

Files-Excluded: appveyor.yml

- build/\*
- programs/windres/\*
- .travis.yml
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It was later taken over by Matthias Urlichs <smurf@debian.org> and is now

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It was downloaded from <https://www.gnupg.org/ftp/gcrypt/gnutls/>

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lib/accelerated/x86/elf/aes-ssse3-x86.s



lib/accelerated/x86/macosx/aes-ssse3-x86.s

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fuzz/psk.h fuzz/srp.h fuzz/certs.h

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include/bsd/sys/bitstring.h  
include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd



man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/pwcache.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/pwcache.c  
src/radixsort.c  
src/setmode.c  
src/strmode.c  
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src/strtoi.c  
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include/bsd/stringlist.h

man/fmtcheck.3bsd

man/humanize\_number.3bsd

man/stringlist.3bsd

man/timeval.3bsd

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src/humanize\_number.c

src/stringlist.c

src/strtonum.c

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man/expand\_number.3bsd

man/flopen.3bsd

man/getpeereid.3bsd

man/pidfile.3bsd

src/expand\_number.c

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src/fparseln.c

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man/strncpy.3bsd  
man/strtonum.3bsd  
src/arc4random.c  
src/arc4random\_linux.h  
src/arc4random\_openbsd.h  
src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/arc4random\_win.h  
src/closefrom.c  
src/freezero.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
src/getentropy\_win.c  
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src/udev/mtd\_probe/probe\_smartmedia.c

src/udev/scsi\_id/scsi.h

src/udev/scsi\_id/scsi\_id.c

src/udev/scsi\_id/scsi\_id.h

src/udev/scsi\_id/scsi\_serial.c

src/udev/udevadm.c

src/udev/udevadm-control.c

src/udev/udevadm.h

src/udev/udevadm-info.c

src/udev/udevadm-monitor.c

src/udev/udevadm-settle.c

src/udev/udevadm-test-builtin.c  
src/udev/udevadm-test.c  
src/udev/udevadm-trigger.c  
src/udev/udevadm-util.c  
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src/udev/udev-builtin-blkid.c  
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It is currently maintained by Marco d'Itri <md@linux.it>.

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Version 3, 29 June 2007

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Date: Fri, 6 Jun 2003 10:18:52 -0700  
From: Juan Gomez <juang@us.ibm.com>  
To: Stephen Frost <sfrost@debian.org>  
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999  
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)  
From: Mark Adamson <adamson@andrew.cmu.edu>  
To: Stephen Frost <sfrost@debian.org>  
Subject: Re: Mark Adamson license in OpenLDAP source

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\* Subject: Re: OpenLDAP Licenseing issues  
\* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>  
\* Date: Wed, 28 May 2003 10:55:44 -0700  
\* Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org  
\* In-reply-to: <20030528162613.GB8524@ns.snowman.net>  
\* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>  
\* Old-return-path: <Kurt@OpenLDAP.org>

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This package was debianized by Thom May <thom@debian.org> on  
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From strings/apr\_fnmatch.c, include/apr\_fnmatch.h,  
misc/unix/getopt.c,  
file\_io/unix/mktemp.c, strings/apr\_strings.c:

/\*

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From test/CuTest.c, test/CuTest.h:

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It was downloaded from <ftp://ftp.gnu.org/gnu/findutils>

Debian maintainer history: The original package was put together by  
Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley  
<kevind@rahul.net> took over. 2003-07 Andreas Metzler  
<ametzler@debian.org> followed.

Upstream Authors:

\* GNU find was written by Eric Decker <cire@cisco.com>,  
with enhancements by David MacKenzie <djm@gnu.org>,  
Jay Plett <jay@silence.princeton.nj.us>,  
and Tim Wood <axolotl!tim@toad.com>.

The idea for `-print0` and `xargs -0` came from

Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.

Improvements have been made by James Youngman <jay@gnu.org>.

\* GNU `xargs`

was originally written by Mike Rendell, with enhancements by David  
MacKenzie. Modifications by James Youngman Dmitry V. Levin

\* GNU `locate` and its associated utilities were originally

written by James Woods, with enhancements by David MacKenzie, James Youngman  
and Bas van Gompel.

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Andreas Metzler  
Kamil Dudka <kdudka@redhat.com>  
Bernhard Voelker <mail@bernhard-voelker.de>

Current upstream maintainer is James Youngman <jay@gnu.org>.

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It has been packaged by Marco d'Itri <md@linux.it>.

Original sources were obtained from:

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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly      Mark Adler  
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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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Sockets

-----

The ``socket'` module uses the functions, ``getaddrinfo'`, and  
``getnameinfo'`,

which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/about/index.html>.

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with python standard

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@version

3.0 (December 2000)

.  
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.  
@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package.

Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)  
svn://gcc.gnu.org/svn/gcc/ (for prereleases)  
ftp://sourceware.org/pub/newlib/ (for newlib)  
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language      | Compiler package | Library package | Documentation    |
|---------------|------------------|-----------------|------------------|
| Ada           | gnat-9           | libgnat-9       | gnat-9-doc       |
| BRIG          | gccbrig-9        | libhsail-rt0    |                  |
| C             | gcc-9            | gcc-9-doc       |                  |
| C++           | g++-9            | libstdc++6      | libstdc++6-9-doc |
| D             | gdc-9            |                 |                  |
| Fortran 95    | gfortran-9       | libgfortran3    | gfortran-9-doc   |
| Go            | gccgo-9          | libgo0          |                  |
| Objective C   | gobjc-9          | libobjc2        |                  |
| Objective C++ | gobjc++-9        |                 |                  |
| Modula-2      | gm2-9            | libgm2          |                  |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources | Development      | Debugging        | Position-Independent |
|----------|---------|------------------|------------------|----------------------|
| C++      |         | libstdc++6-9-dbg | libstdc++6-9-pic |                      |

D libphobos-9-dev

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4

    GCC intrinsics (platform-dependent)

|                  |                                    |
|------------------|------------------------------------|
| gcc-9-base       | Base files common to all compilers |
| gcc-9-soft-float | Software floating point (ARM only) |
| gcc-9-source     | The sources with patches           |

Ada:

libgnatvsn-dev, libgnatvsn9 GNAT version library

C:

|                      |                                       |
|----------------------|---------------------------------------|
| cpp-9, cpp-9-doc     | GNU C Preprocessor                    |
| libssp0-dev, libssp0 | GCC stack smashing protection library |
| libquadmath0         | Math routines for the __float128 type |
| fixincludes          | Fix non-ANSI header files             |

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library  
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
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D:

gdc-9                    GNU D Compiler  
libphobos-9-dev        D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/\*

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The DMD Compiler implementation of the D programming language:

- d/dmd/\*

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The Zlib data compression library:

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The Phobos standard runtime library:

- d/phobos/\*

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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,  
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,  
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,  
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,  
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.  
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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Libgcrypt used  
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Most of the stuff in mpi has been taken from an old GMP library  
version by Torbjorn Granlund <tege@noisy.tmg.se>.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to

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src/auth\_unix.c  
src/authdes\_prot.c  
src/authunix\_prot.c  
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src/clnt\_bcast.c  
src/clnt\_perror.c  
src/clnt\_raw.c  
src/clnt\_simple.c  
src/clnt\_vc.c  
src/debug.c  
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src/des\_crypt.c  
src/getnetconfig.c  
src/getnetpath.c  
src/getrpcport.c  
src/getrpcport.c  
src/key\_call.c  
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src/rpc\_prot.c  
src/rpc\_soc.c  
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src/rpcb\_st\_xdr.c  
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src/svc\_auth.c  
src/svc\_auth\_des.c  
src/svc\_auth\_unix.c  
src/svc\_dg.c  
src/svc\_generic.c  
src/svc\_raw.c  
src/svc\_simple.c  
src/svc\_vc.c



src/xdr\_array.c  
src/xdr\_float.c  
src/xdr\_mem.c  
src/xdr\_rec.c  
src/xdr\_reference.c  
src/xdr\_sizeof.c  
src/xdr\_stdio.c  
tirpc/rpc/auth\_des.h  
tirpc/rpc/auth\_unix.h  
tirpc/rpc/des\_crypt.h  
tirpc/rpc/pmap\_clnt.h  
tirpc/rpc/pmap\_prot.h  
tirpc/rpc/pmap\_rmt.h  
tirpc/rpc/raw.h  
tirpc/rpc/rpc\_com.h

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ltmain.sh  
m4/libtool.m4  
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man/rpc\_gss\_get\_versions.3t  
man/rpc\_gss\_getcred.3t  
man/rpc\_gss\_is\_installed.3t  
man/rpc\_gss\_max\_data\_length.3t  
man/rpc\_gss\_mech\_to\_oid.3t  
man/rpc\_gss\_qop\_to\_num.3t  
man/rpc\_gss\_seccreate.3t  
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optimize pattern matching. This is an optional feature that can be omitted when  
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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain:  
cam.ac.uk

University of Cambridge Computing Service,  
Cambridge, England.

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2008-2011, Jakub Narebski <jnareb@gmail.com>

2011, John 'Warthog9' Hawley <warthog9@eaglescrag.net>

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Files: git-p4

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Files: git-svn.perl

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Files: imap-send.c

Copyright: 2000-2002, Michael R. Elkins <me@mutt.org>

2002-2004, Oswald Buddenhagen <ossi@users.sf.net>

2004, Theodore Y. Ts'o <tytso@mit.edu>

2006, Mike McCormack

Name: git-imap-send - drops patches into an imap Drafts folder  
derived from isync/mbsync - mailbox synchronizer

License: GPL-2+

Files: perl/Git.pm

Copyright: 2006, by Petr Baudis <pasky@suse.cz>

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Files: perl/private-Error.pm

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Name: Extended regular expression matching and search library

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Files: compat/obstack.c compat/obstack.h

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Name: Object stack macros.

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Files: contrib/persistent-https/\*

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Files: contrib/credential/gnome-keyring/git-credential-gnome-keyring.c

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2012, Philipp A. Hartmann <pah@qo.cx>

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Copyright: 2007, Stelian Pop <stelian@popies.net>

Name: hg-to-git.py - A Mercurial to GIT converter

License: GPL-2+

Files: contrib/mw-to-git/git-\*.perl contrib/mw-to-git/t/\*

Copyright: 2011

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Source: <https://github.com/Cyan4973/lz4>

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Upstream-Contact: sysvinit-devel@nongnu.org

Source: <https://download.savannah.gnu.org/releases/sysvinit/>

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

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Comment:

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Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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Files: src/liblzma/check/crc32\_table\_?e.h

src/liblzma/check/crc64\_table\_?e.h

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Comment:

changelog.gz (commit 975d8fd) explains:

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Files: dos/config.h

Copyright: 1992, 1993, 1994, 1999, 2000, 2001, 2002, 2005

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

License: config-h

configure.ac:

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comments from Autoconf 2.52g:

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dos/config.h was generated with autoheader, which tells Autoconf to  
output a script to generate a config.h file and then runs it.

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Upstream-Name: brotli

Source: <https://github.com/google/brotli>

Files: \*

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From `strings/apr_fnmatch.c`, `include/apr_fnmatch.h`,  
`misc/unix/getopt.c`,  
`file_io/unix/mktemp.c`, `strings/apr_strings.c`:

/\*

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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Upstream-Name: libassuan

Upstream-Contact: Werner Koch <[wk@gnupg.org](mailto:wk@gnupg.org)>

Source: <https://gnupg.org/ftp/gcrypt/libassuan/>

Files: \*

Makefile.am

src/Makefile.am

src/assuan-buffer.c

src/assuan-error.c

src/assuan-inquire.c

src/assuan-io.c

src/assuan-listen.c

src/assuan-pipe-server.c

src/assuan-socket-connect.c

src/assuan-socket-server.c

src/assuan-socket.c

src/assuan-uds.c

src/client.c

src/context.c

src/funopen.c

src/memrchr.c

src/posix-fd-t.inc.h

src/posix-includes.inc.h

src/posix-sock-nonce.inc.h

src/posix-sys-pth-impl.h

src/posix-types.inc.h

src/putc\_unlocked.c

src/server.c

src/setenv.c

src/stpcpy.c

src/system-posix.c

src/system-w32.c

src/system-w32ce.c

src/system.c

src/w32-fd-t.inc.h

src/w32-includes.inc.h

src/w32-sock-nonce.inc.h

src/w32-sys-pth-impl.h  
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m4/ltsugar.m4  
m4/ltversion.m4  
m4/lt~obsolete.m4  
m4/onceonly.m4  
m4/socklen.m4  
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src/gpgcemgr.c  
tests/Makefile.am  
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src/libassuan.def  
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Upstream-Name: Pinentry  
Upstream-Contact: [gnupg-devel@gnupg.org](mailto:gnupg-devel@gnupg.org)  
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Upstream-Contact: Niels Mller <nisse@lysator.liu.se>  
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man/sha1.3

man/sha2.3

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This package was put together by Yann Dirson <dirson@debian.org>,  
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src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

src/pcf/module.mk

src/pcf/pcf.c src/pcf/pcf.h

src/pcf/pcfdrivr.c src/pcf/pcfdrivr.h

src/pcf/pcfread.c src/pcf/pcfread.h

src/pcf/pcfutil.h

src/pcf/README

src/pcf/rules.mk

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Files: src/bdf/bdf.h src/bdf/bdflib.c

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src/gzip/infblock.c src/gzip/infblock.h

src/gzip/infcodes.c src/gzip/infcodes.h

src/gzip/inflate.c

src/gzip/inftrees.c src/gzip/inftrees.h

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src/psaux/psblues.c src/psaux/psblues.h  
src/psaux/pserror.c src/psaux/pserror.h  
src/psaux/psfixed.h  
src/psaux/psfont.c src/psaux/psfont.h  
src/psaux/psft.c src/psaux/psft.h  
src/psaux/psglue.h  
src/psaux/pshints.c src/psaux/pshints.h  
src/psaux/psintrap.c src/psaux/psintrap.h  
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src/psaux/psstack.c src/psaux/psstack.h  
src/psaux/pstypes.h

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src/type42/t42objs.c src/type42/t42objs.h

src/type42/t42parse.c src/type42/t42parse.h

src/type42/t42types.h

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.  
o freetype@nongnu.org

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.  
o freetype-devel@nongnu.org

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Packaging is done by the Debian GCC Maintainers <[debian-gcc@lists.debian.org](mailto:debian-gcc@lists.debian.org)>, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)

<svn://gcc.gnu.org/svn/gcc/> (for prereleases)

<ftp://sourceware.org/pub/newlib/> (for newlib)

<git://git.savannah.gnu.org/gm2.git> (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language | Compiler package | Library package | Documentation |
|----------|------------------|-----------------|---------------|
|----------|------------------|-----------------|---------------|

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|               |             |              |                   |
|---------------|-------------|--------------|-------------------|
| Ada           | gnat-10     | libgnat-10   | gnat-10-doc       |
| BRIG          | gccbrig-10  | libhsail-rt0 |                   |
| C             | gcc-10      | gcc-10-doc   |                   |
| C++           | g++-10      | libstdc++6   | libstdc++6-10-doc |
| D             | gdc-10      |              |                   |
| Fortran 95    | gfortran-10 | libgfortran5 | gfortran-10-doc   |
| Go            | gccgo-10    | libgo0       |                   |
| Objective C   | gobjc-10    | libobjc4     |                   |
| Objective C++ | gobjc++-10  |              |                   |
| Modula-2      | gm2-10      | libgm2       |                   |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources          | Development       | Debugging         | Position-Independent |
|----------|------------------|-------------------|-------------------|----------------------|
| C++      |                  | libstdc++6-10-dbg | libstdc++6-10-pic |                      |
| D        | libphobos-10-dev |                   |                   |                      |

Additional packages include:

All languages:

|                   |                                     |
|-------------------|-------------------------------------|
| libgcc1,          |                                     |
| libgcc2, libgcc4  | GCC intrinsics (platform-dependent) |
| gcc-10-base       | Base files common to all compilers  |
| gcc-10-soft-float | Software floating point (ARM only)  |
| gcc-10-source     | The sources with patches            |

Ada:

libgnat-util10-dev, libgnat-util10 GNAT version library

C:

|                      |                                       |
|----------------------|---------------------------------------|
| cpp-10, cpp-10-doc   | GNU C Preprocessor                    |
| libssp0-dev, libssp0 | GCC stack smashing protection library |
| libquadmath0         | Math routines for the __float128 type |
| fixincludes          | Fix non-ANSI header files             |

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library  
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can

also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3

- libobjc
- libgfortran
- The libgnat-10 Ada support library and libgnat-util10 library.
- Various config files in gcc/config/ used in runtime libraries.
- libvtv

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libquadmath/math:

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

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ldexpq.c:

- \* Conversion to long double by Ulrich Drepper,
- \* Cygnus Support, drepper@cygnus.com.

cosq\_kernel.c, expq.c, sincos\_table.c, sincosq.c, sincosq\_kernel.c,  
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Cephes Math Library Release 2.2: January, 1991

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D:

gdc-10                    GNU D Compiler  
libphobos-10-dev        D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:

- d/\*

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|                | KHR/ khrplatform.h    | Khronos        |

\*\*\*\*\*

----  
include/GL/gl.h :

Mesa 3-D  
graphics library

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include/GL/glxext.h  
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Makefile

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Mesa 3-D  
graphics library

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include/GL/glxext.h  
include/GL/wglxext.h :

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include/KHR/khrplatform.h :

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Last revised by Reagle \$Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) \$

## 1.261 servlet-api 3.0.1

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```
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/Impl.java
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-
jar/io/perfmark/PerfMark.java
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/package-
info.java
*
/opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/Link.java
* /opt/cola/permits/1656707133_1682600610.4687467/0/perfmark-api-0-17-0-sources-1-jar/io/perfmark/Tag.java
```

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# 1.267 libucontext 1.2-r2

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## 1.269 Iz4-java 1.8.0

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/\* c\_rehash.c - Create hash symlinks for certificates

\* C implementation based on the original Perl and shell versions

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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## 1.272 joda-time 2.11.1

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## 1.274 alpine-baselayout 3.4.3-r1

### 1.274.1 Available under license :

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```
/*  
* Create mount directories in fstab  
*
```

```
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*
* usage: mkmntdirs [fstab]
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1675356458_1684887865.7744117/0/alpine-baselayout-master-zip/alpine-baselayout-
master/src/mkmntdirs.c
```

## 1.275 musl-utils 1.2.4-r0

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iconv.c

Implementation of SUSv4 XCU iconv utility

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## 1.276 ca-certificates-bundle 20230506-r0

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```

Found in path(s):

```
* /opt/cola/permits/1679450782_1685340861.071418/0/ca-certificates-20230506-tar-bz2/ca-certificates-  
20230506/mk-ca-bundle.pl
```

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```
/* c_rehash.c - Create hash symlinks for certificates  
* C implementation based on the original Perl and shell versions  
*  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1679450782_1685340861.071418/0/ca-certificates-20230506-tar-bz2/ca-certificates-  
20230506/c_rehash.c
```

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```

Found in path(s):

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRequest.java

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Found in path(s):

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/descriptor/package.html

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Found in path(s):

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/LocalStrings.properties

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/LocalStrings\_ja.properties

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/LocalStrings.properties

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/LocalStrings\_fr.properties

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/LocalStrings\_ja.properties

\*

/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/LocalStrings\_fr.properties  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/LocalStrings\_es.properties  
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*/  
/**  
 * Constructor to establish non-empty getRolesAllowed and/or <tt>TransportGuarantee.CONFIDENTIAL</tt>.  
 *  
 * @param guarantee <tt>TransportGuarantee.NONE</tt> or <tt>TransportGuarantee.CONFIDENTIAL</tt>  
 * @param roleNames the names of the roles that are to be allowed access  
 */
```

Found in path(s):

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/HttpConstraintElement.java  
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-->

<![CDATA[

Comments to: <a href="mailto:servlet-dev@eclipse.org">servlet-dev@eclipse.org</a>.<br>

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Found in path(s):

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/SessionCookieConfig.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRegistration.java

\*

/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletSecurityElement.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/HttpMethodConstraint.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/ServletSecurity.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/descriptor/JspPropertyGroupDescriptor.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/WebFilter.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/AsyncContext.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/FilterRegistration.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/PushBuilder.java  
\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/MultipartConfigElement.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletContainerInitializer.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/HttpMethodConstraintElement.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/WebInitParam.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ReadListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/Registration.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/descriptor/JspConfigDescriptor.java  
\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/DispatcherType.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/AsyncListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/MultipartConfig.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSessionIdListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpUpgradeHandler.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/WebConnection.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/SessionTrackingMode.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/HandlesTypes.java  
\*  
/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/HttpConstraint.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/WebServlet.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/WriteListener.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/descriptor/TaglibDescriptor.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/annotation/WebListener.java



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\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/package.html

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\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/GenericFilter.java

\*

/opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/AsyncEvent.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/MappingMatch.java

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/Part.java

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```
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletRequestAttributeEvent.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpSessionListener.java
*
/opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/RequestDispatcher.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletRequestWrapper.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/FilterChain.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletException.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletContextAttributeListener.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpSessionActivationListener.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpSessionAttributeListener.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/Servlet.java
*
/opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletRequestListener.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpServletResponse.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
```

```

jar/javax/servlet/ServletContextListener.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletRequestAttributeListener.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpServletRequest.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpServletRequestWrapper.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/Filter.java
*
/opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletOutputStream.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpServletRequestWrapper.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpUtils.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletContextAttributeEvent.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpSessionContext.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/FilterConfig.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletInputStream.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/UnavailableException.java
*
/opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpSessionEvent.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletResponse.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpSessionBindingListener.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpServlet.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/SingleThreadModel.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletContextEvent.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletContext.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/Cookie.java
*
/opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/http/HttpSessionBindingEvent.java
* /opt/cola/permits/1681312840_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-
jar/javax/servlet/ServletResponseWrapper.java

```

\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletRequestEvent.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/http/HttpSession.java  
\* /opt/cola/permits/1681312840\_1684484792.055749/0/jakarta-servlet-api-4-0-4-sources-jar/javax/servlet/ServletConfig.java

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# 1.278 xpp3-xpath 1.1.4c

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```
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* $Header:
*/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/SingleObjectIterator.java,v
1.1 2004/06/16 15:55:42 aslom Exp $
* $Revision: 1.1 $
* $Date: 2004/06/16 15:55:42 $
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SingleObjectIterator.java,v 1.1 2004/06/16 15:55:42 aslom Exp \$  
\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/util/SingleObjectIterator.java  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/BinaryExpr.java,v 1.1  
2004/06/16 15:55:36 aslom Exp \$

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 \* \$Id: BinaryExpr.java,v  
 1.1 2004/06/16 15:55:36 aslom Exp \$  
 \*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-

jar/org/xmlpull/v1/builder/xpath/jaxen/expr/BinaryExpr.java  
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```
/*
 * $Header:
 /extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/DescendantOrSelfAxisIterato
 r.java,v 1.2 2005/08/11 22:44:02 aslom Exp $
 * $Revision: 1.2 $
 * $Date: 2005/08/11 22:44:02 $
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jar/org/xmlpull/v1/builder/xpath/jaxen/util/DescendantOrSelfAxisIterator.java

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/LiteralExpr.java,v 1.1  
2004/06/16 15:55:36 aslom Exp \$

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\* \$Id: LiteralExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$

\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/expr/LiteralExpr.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/NumberExpr.java,v 1.1

2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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\* \$Id: NumberExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/NumberExpr.java

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IfAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:01 \$

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\* \$Id: IterableDescendantOrSelfAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$

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 jar/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableDescendantOrSelfAxis.java  
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 \* \$Header: /1/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/QualifiedName.java,v  
 1.1 2004/06/16 15:55:34 aslom Exp \$  
 \* \$Revision: 1.1 \$  
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1.1 2004/06/16 15:55:34 aslom Exp \$  
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2004/06/16 15:55:34 aslom Exp \$

\* \$Revision: 1.1 \$

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1.1 2004/06/16 15:55:34 aslom Exp \$

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\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:42 \$

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1.1 2004/06/16 15:55:40 aslom Exp \$

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NameFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
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1.2 2005/08/11 22:44:00 aslom Exp \$  
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DefaultNumberExpr.java,v 1.2 2005/08/11 22:44:00 aslom Exp \$

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\*  
\* \$Id: IterableFollowingSiblingAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableFollowingSiblingAxis.java  
No license file was found, but licenses were detected in source scan.

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/ext/MatrixConcatFunction.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:02 \$

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\* \$Id: MatrixConcatFunction.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$  
\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/function/ext/MatrixConcatFunction.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultAndExpr.java,v 1.1  
2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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\* \$Id: DefaultAndExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$  
\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultAndExpr.java  
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/\*  
\* \$Header:  
/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/XPathExpr.java,v 1.1  
2004/06/16 15:55:36 aslom Exp \$  
\* \$Revision: 1.1 \$  
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\* \$Id: XPathExpr.java,v  
 1.1 2004/06/16 15:55:36 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/expr/XPathExpr.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/PrecedingAxisIterator.java,v

1.1 2004/06/16 15:55:42 aslom Exp \$

\* \$Revision: 1.1 \$

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/LocationPathPattern.java,  
v 1.2 2005/08/11 22:44:02 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:02 \$

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 \* \$Id: LocationPathPattern.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$  
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 jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/LocationPathPattern.java

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* $Header:
*/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterablePrecedingAxis.j
ava,v 1.2 2005/08/11 22:44:01 aslom Exp $
* $Revision: 1.2 $
* $Date: 2005/08/11 22:44:01 $
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/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/ConcatFunction.java,v  
1.1 2004/06/16 15:55:39 aslom Exp \$

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 \* ConcatFunction.java,v 1.1 2004/06/16 15:55:39 aslom Exp \$  
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 \* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
 jar/org/xmlpull/v1/builder/xpath/jaxen/function/ConcatFunction.java  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultGreaterThanExpr.jav

a,v 1.1 2004/06/16 15:55:36 aslom Exp \$

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultGreaterThanExpr.java

No license file was found, but licenses were detected in source scan.

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultNameStep.java,v 1.1  
2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

\*

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 \* \$Id: DefaultNameStep.java,v  
 \* 1.1 2004/06/16 15:55:36 aslom Exp \$  
 \*/

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 \* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
 jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultNameStep.java  
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 \* \$Header:  
 /!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/SelfAxisIterator.java,v 1.1  
 2004/06/16 15:55:42 aslom Exp \$  
 \* \$Revision: 1.1 \$



\* \$Date: 2004/06/16 15:55:42 \$

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\* \$Id:

SelfAxisIterator.java,v 1.1 2004/06/16 15:55:42 aslom Exp \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/util/SelfAxisIterator.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/PrecedingSiblingAxisIterator  
.java,v 1.1 2004/06/16 15:55:42 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:42 \$

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* $Id: PrecedingSiblingAxisIterator.java,v 1.1 2004/06/16 15:55:42 aslom Exp $
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* /opt/cola/permits/1685970482_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-
jar/org/xmlpull/v1/builder/xpath/jaxen/util/PrecedingSiblingAxisIterator.java
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/SumFunction.java,v 1.1
2004/06/16 15:55:40 aslom Exp $
```

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:40 \$

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\* \$Id: SumFunction.java,v  
1.1 2004/06/16 15:55:40 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/function/SumFunction.java  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/TextNodeTest.java,v 1.1  
2004/06/16 15:55:41 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:41 \$

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\* \$Id: TextNodeTest.java,v  
\* 1.1 2004/06/16 15:55:41 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/TextNodeTest.java  
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\* \$Header:  
\* /!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/SimpleFunctionContext.java,v  
\* 1.2 2005/08/11 22:44:00 aslom Exp \$  
\* \$Revision: 1.2 \$  
\* \$Date: 2005/08/11 22:44:00 \$

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1.1 2004/06/16 15:55:36 aslom Exp \$  
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v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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\*/opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultNotEqualsExpr.java

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/saxpath/SAXPathEventSource.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:43 \$

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\* \$Id: SAXPathEventSource.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/saxpath/SAXPathEventSource.java  
No license file was found, but licenses were detected in source scan.

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\* \$Header: /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/saxpath/Axis.java,v 1.2  
2005/08/11 22:44:02 aslom Exp \$  
\* \$Revision: 1.2 \$  
\* \$Date: 2005/08/11 22:44:02 \$

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 \*  
 \* \$Id: Axis.java,v  
 \* 1.2 2005/08/11 22:44:02 aslom Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/saxpath/Axis.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/VariableContext.java,v 1.1  
2004/06/16 15:55:34 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:34 \$

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\*  
\* \$Id: VariableContext.java,v  
1.1 2004/06/16 15:55:34 aslom Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/VariableContext.java

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\* \$Header:

/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/AncestorOrSelfAxisIterator.j  
ava,v 1.1 2004/06/16 15:55:42 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:42 \$

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\* \$Id: AncestorOrSelfAxisIterator.java,v 1.1 2004/06/16 15:55:42 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-



jar/org/xmlpull/v1/builder/xpath/jaxen/util/AncestorOrSelfAxisIterator.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/NameTest.java,v 1.1

2004/06/16 15:55:41 aslom Exp \$

\* \$Revision: 1.1 \$

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\* \$Id: NameTest.java,v  
1.1 2004/06/16 15:55:41 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/NameTest.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/NormalizeSpaceFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:40 \$

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\* \$Id: NormalizeSpaceFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
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1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/NoNodeTest.java,v 1.1  
2004/06/16 15:55:41 aslom Exp \$

\* \$Revision: 1.1 \$

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 \* \$Id: NoNodeTest.java,v  
 \* 1.1 2004/06/16 15:55:41 aslom Exp \$  
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 jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/NoNodeTest.java

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* $Header:
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/1/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/BooleanFunction.java,v
1.2 2005/08/11 22:44:02 aslom Exp $
* $Revision: 1.2 $
* $Date: 2005/08/11 22:44:02 $
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\* \$Id:

BooleanFunction.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/function/BooleanFunction.java

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\* \$Header:

/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/PositionFunction.java,v  
1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:40 \$

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PositionFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/function/PositionFunction.java

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/1/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/ext/EndsWithFunction.java,v 1.1 2004/06/16 15:55:41 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:41 \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/function/ext/EndsWithFunction.java

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Axis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:01 \$

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\* \$Id: IterableAncestorOrSelfAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$  
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 \* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
 jar/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableAncestorOrSelfAxis.java  
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 \* \$Header:  
 /!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableFollowingAxis.j  
 ava,v 1.2 2005/08/11 22:44:01 aslom Exp \$  
 \* \$Revision: 1.2 \$  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/SubstringBeforeFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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2004/06/16 15:55:36 aslom Exp \$

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\*  
\* \$Id: XPathReader.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/saxpath/com/werken/saxpath/XPathReader.java  
No license file was found, but licenses were detected in source scan.

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableChildAxis.java,v  
1.2 2005/08/11 22:44:01 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:01 \$

\*

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\$Id: IterableChildAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$

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Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableChildAxis.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultUnaryExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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 \*  
 \* \$Id:  
 \* DefaultUnaryExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultUnaryExpr.java

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```
/*
* $Header: /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/XPath.java,v 1.2
2005/08/11 22:44:00 aslom Exp $
* $Revision: 1.2 $
* $Date: 2005/08/11 22:44:00 $
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\* \$Id: XPath.java,v 1.2  
2005/08/11 22:44:00 aslom Exp \$

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Found in path(s):

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jar/org/xmlpull/v1/builder/xpath/jaxen/XPath.java

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/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/SimpleNamespaceContext.java,v  
1.1 2004/06/16 15:55:34 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:34 \$

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SimpleNamespaceContext.java,v 1.1 2004/06/16 15:55:34 aslom Exp \$  
\*/  
  
Found in path(s):  
\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/SimpleNamespaceContext.java  
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\* \$Header:  
 /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/saxpath/SAXPathException.java,v 1.1  
 2004/06/16 15:55:43 aslom Exp \$

\* \$Revision: 1.1 \$

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\* \$Id: SAXPathException.java,v  
1.1 2004/06/16 15:55:43 aslom Exp \$

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/saxpath/SAXPathException.java

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2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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 LastFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
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 jar/org/xmlpull/v1/builder/xpath/jaxen/function/LastFunction.java  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/UnresolvableException.java,v

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/CeilingFunction.java,v  
1.1 2004/06/16 15:55:39 aslom Exp \$

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* CeilingFunction.java,v 1.1 2004/06/16 15:55:39 aslom Exp $
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* $Header:
*/
* /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/PredicateSet.java,v 1.1
2004/06/16 15:55:36 aslom Exp $
* $Revision: 1.1 $

```

\* \$Date: 2004/06/16 15:55:36 \$

\*

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\* \$Id: PredicateSet.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/PredicateSet.java

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\* \$Header: /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/Expr.java,v 1.2  
2005/08/11 22:44:00 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:00 \$

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\* \$Id: Expr.java,v  
1.2 2005/08/11 22:44:00 aslom Exp \$  
\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/Expr.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableParentAxis.java,  
v 1.2 2005/08/11 22:44:01 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:01 \$

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\* \$Id: IterableParentAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableParentAxis.java  
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\* \$Header: /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/Function.java,v 1.1  
2004/06/16 15:55:34 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:34 \$  
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\* \$Id: Function.java,v  
1.1 2004/06/16 15:55:34 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/Function.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/UnsupportedAxisException.java,  
v 1.1 2004/06/16 15:55:34 aslom Exp \$  
\* \$Revision: 1.1 \$  
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\* \$Id:

UnsupportedAxisException.java,v 1.1 2004/06/16 15:55:34 aslom Exp \$

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\*/opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/UnsupportedAxisException.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/XPathSyntaxException.java,v 1.1 2004/06/16 15:55:34 aslom Exp \$

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\* \$Id: XPathSyntaxException.java,v  
\* 1.1 2004/06/16 15:55:34 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/XPathSyntaxException.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultLocationPath.java,v  
1.2 2005/08/11 22:44:00 aslom Exp \$  
\* \$Revision: 1.2 \$  
\* \$Date: 2005/08/11 22:44:00 \$

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 \* DefaultLocationPath.java,v 1.2 2005/08/11 22:44:00 aslom Exp \$  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/TrueFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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\* \$Id:  
TrueFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/jaxen/function/TrueFunction.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/DescendantAxisIterator.java,  
v 1.1 2004/06/16 15:55:42 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:42 \$

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 \*  
 \* \$Id: DescendantAxisIterator.java,v 1.1 2004/06/16 15:55:42 aslom Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-

jar/org/xmlpull/v1/builder/xpath/jaxen/util/DescendantAxisIterator.java

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\* \$Header: /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/FilterExpr.java,v

1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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1.1 2004/06/16 15:55:36 aslom Exp \$

\*/

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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/FilterExpr.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/UnaryExpr.java,v 1.1  
2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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 \* \$Id: UnaryExpr.java,v  
 1.1 2004/06/16 15:55:36 aslom Exp \$  
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 jar/org/xmlpull/v1/builder/xpath/jaxen/expr/UnaryExpr.java

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/*
* $Header:
/1/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultPredicated.java,v 1.1
2004/06/16 15:55:36 aslom Exp $
* $Revision: 1.1 $
* $Date: 2004/06/16 15:55:36 $
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DefaultPredicated.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$

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\* \$Revision: 1.1 \$

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 \* \$Id: TokenType.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$  
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2004/06/16 15:55:34 aslom Exp \$

\* \$Revision: 1.1 \$

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1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

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DefaultBinaryExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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ort.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$  
\* \$Revision: 1.2 \$

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2004/06/16 15:55:34 aslom Exp \$  
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\* \$Id: NamespaceContext.java,v  
 1.1 2004/06/16 15:55:34 aslom Exp \$  
 \*/

Found in path(s):  
 \* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
 jar/org/xmlpull/v1/builder/xpath/jaxen/NamespaceContext.java  
 No license file was found, but licenses were detected in source scan.

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 \* \$Header:  
 /!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultStep.java,v 1.2  
 2005/08/11 22:44:00 aslom Exp \$  
 \* \$Revision: 1.2 \$  
 \* \$Date: 2005/08/11 22:44:00 \$  
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1.2 2005/08/11 22:44:00 aslom Exp \$  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/NamespaceTest.java,v  
1.1 2004/06/16 15:55:41 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:41 \$

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\* \$Id:  
\* NamespaceTest.java,v 1.1 2004/06/16 15:55:41 aslom Exp \$  
\*/

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jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/NamespaceTest.java  
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\* \$Header:  
\* /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultRelativeLocationPat  
h.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:36 \$

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\* \$Header:

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\* \$Header:  
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1.2 2005/08/11 22:44:02 aslom Exp \$  
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StringFunction.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/function/StringFunction.java

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2004/06/16 15:55:34 aslom Exp \$  
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\* \$Revision: 1.2 \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableDescendantAxis.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultCommentNodeStep.j  
ava,v 1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

\*

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* $Id: DefaultCommentNodeStep.java,v 1.1 2004/06/16 15:55:36 aslom Exp $
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```

Found in path(s):

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* /opt/cola/permits/1685970482_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultCommentNodeStep.java

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* $Header:
/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/saxpath/com/werken/saxpath/DefaultX
PathHandler.java,v 1.1 2004/06/16 15:55:43 aslom Exp $
* $Revision: 1.1 $
* $Date: 2004/06/16 15:55:43 $
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\* \$Id: DefaultXPathHandler.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$

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jar/org/xmlpull/v1/builder/xpath/saxpath/com/werken/saxpath/DefaultXPathHandler.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultLiteralExpr.java,v  
1.2 2005/08/11 22:44:00 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:00 \$

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\* \$Id:  
DefaultLiteralExpr.java,v 1.2 2005/08/11 22:44:00 aslom Exp \$  
\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultLiteralExpr.java  
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/\*  
\* \$Header:  
/1/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/FunctionCallException.java,v 1.1  
2004/06/16 15:55:34 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:34 \$



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FunctionCallException.java,v 1.1 2004/06/16 15:55:34 aslom Exp \$  
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Found in path(s):  
\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/FunctionCallException.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultTextNodeStep.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$  
\* \$Revision: 1.1 \$  
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 DefaultTextNodeStep.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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 er.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$  
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\* \$Revision: 1.2 \$

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1.2 2004/10/01 08:33:20 aslom Exp \$  
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1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

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\* \$Id:  
DefaultAllNodeStep.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultAllNodeStep.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultExpr.java,v 1.2  
2005/08/11 22:44:00 aslom Exp \$

\* \$Revision: 1.2 \$  
\* \$Date: 2005/08/11 22:44:00 \$

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\* \$Id: DefaultExpr.java,v

1.2 2005/08/11 22:44:00 aslom Exp \$

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/saxpath/conformance/ConformanceXPathHandler.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$

\* \$Revision: 1.1 \$

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jar/org/xmlpull/v1/builder/xpath/saxpath/conformance/ConformanceXPathHandler.java  
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1.1 2004/06/16 15:55:42 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:42 \$

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 \* \$Id:

AncestorAxisIterator.java,v 1.1 2004/06/16 15:55:42 aslom Exp \$

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/util/AncestorAxisIterator.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/StartsWithFunction.java  
,v 1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/function/StartsWithFunction.java

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\* \$Revision: 1.1 \$

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jar/org/xmlpull/v1/builder/xpath/saxpath/com/werken/saxpath/Token.java  
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\* \$Revision: 1.1 \$

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1.1 2004/06/16 15:55:41 aslom Exp \$

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2005/08/11 22:44:00 aslom Exp $
* $Revision: 1.2 $
* $Date: 2005/08/11 22:44:00 $
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\* \$Id:

DefaultArithExpr.java,v 1.2 2005/08/11 22:44:00 aslom Exp \$

\*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultArithExpr.java

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\* \$Header:

/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultMultiplyExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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* $Id:
* DefaultMultiplyExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp $
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* /opt/cola/permits/1685970482_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultMultiplyExpr.java
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/SubstringAfterFunction.  
java,v 1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:40 \$

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\* \$Id: SubstringAfterFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableSelfAxis.java,v  
1.2 2005/08/11 22:44:01 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:01 \$

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/FalseFunction.java,v 1.1  
2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultXPathExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

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DefaultXPathExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableAxis.java,v 1.2  
2005/08/11 22:44:01 aslom Exp \$

\* \$Revision: 1.2 \$

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* $Id:
* IterableAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp $
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* $Header: /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/Predicate.java,v
1.2 2005/08/11 22:44:00 aslom Exp $
* $Revision: 1.2 $
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/TranslateFunction.java,  
v 1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:40 \$

\*

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\*  
\* \$Id: TranslateFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/function/TranslateFunction.java  
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\* \$Header: /1/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/saxpath/Operator.java,v 1.1  
2004/06/16 15:55:43 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:43 \$

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\* \$Id: Operator.java,v  
1.1 2004/06/16 15:55:43 aslom Exp \$  
\*/

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\*/opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/saxpath/Operator.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/StackedIterator.java,v 1.1  
2004/06/16 15:55:42 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:42 \$

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\* \$Id: StackedIterator.java,v  
1.1 2004/06/16 15:55:42 aslom Exp \$  
\*/

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jar/org/xmlpull/v1/builder/xpath/jaxen/util/StackedIterator.java  
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\* \$Header: /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/PathExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:36 \$

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 \* \$Id: PathExpr.java,v  
 1.1 2004/06/16 15:55:36 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/expr/PathExpr.java

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\* \$Header: /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/Navigator.java,v 1.1 2004/06/16 15:55:34 aslom Exp \$

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1.1 2004/06/16 15:55:34 aslom Exp \$

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterablePrecedingSiblingAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:01 \$

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 jar/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterablePrecedingSiblingAxis.java

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/*
* $Header:
*/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/FollowingSiblingAxisIterator
.java,v 1.1 2004/06/16 15:55:42 aslom Exp $
* $Revision: 1.1 $
* $Date: 2004/06/16 15:55:42 $
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java,v 1.1 2004/06/16 15:55:36 aslom Exp \$

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 v 1.2 2005/08/11 22:44:02 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:02 \$

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\$Id: UpperFunction.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/function/ext/UpperFunction.java

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultPathExpr.java,v 1.2  
2005/08/11 22:44:00 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:00 \$

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\* \$Id: DefaultPathExpr.java,v  
1.2 2005/08/11 22:44:00 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultPathExpr.java

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2005/08/11 22:44:00 aslom Exp \$

\* \$Revision: 1.2 \$

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DefaultFilterExpr.java,v 1.2 2005/08/11 22:44:00 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultFilterExpr.java  
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 jar/org/xmlpull/v1/builder/xpath/jaxen/function/ext/EvaluateFunction.java  
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 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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1.1 2004/06/16 15:55:40 aslom Exp \$  
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2004/06/16 15:55:42 aslom Exp \$

\* \$Revision: 1.1 \$

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\* \$Id: LinkedIterator.java,v  
1.1 2004/06/16 15:55:42 aslom Exp \$  
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1.2 2005/08/11 22:44:00 aslom Exp \$  
\* \$Revision: 1.2 \$  
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,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
\* \$Revision: 1.1 \$  
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\* \$Id: VariableReferenceExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/expr/VariableReferenceExpr.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/ContainsFunction.java,v

1.1 2004/06/16 15:55:39 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:39 \$

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ContainsFunction.java,v 1.1 2004/06/16 15:55:39 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/jaxen/function/ContainsFunction.java  
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\* \$Revision: 1.2 \$  
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 \* \$Id:  
 XPathReaderFactory.java,v 1.2 2004/10/01 08:33:20 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-

jar/org/xmlpull/v1/builder/xpath/saxpath/helpers/XPathReaderFactory.java

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultProcessingInstructionNodeStep.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultProcessingInstructionNodeStep.java

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2004/06/16 15:55:34 aslom Exp \$

\* \$Revision: 1.1 \$

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 \*  
 \* \$Id: ContextSupport.java,v 1.1 2004/06/16 15:55:34 aslom Exp \$  
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/*
* $Header:
/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultAdditiveExpr.java,v
1.1 2004/06/16 15:55:36 aslom Exp $
* $Revision: 1.1 $
* $Date: 2004/06/16 15:55:36 $
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 2004/06/16 15:55:41 aslom Exp \$

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/AnyNodeTest.java

No license file was found, but licenses were detected in source scan.

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\* \$Header: /1/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/BaseXPath.java,v 1.2

2005/08/11 22:44:00 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:00 \$

\*

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\* \$Id: BaseXPath.java,v 1.2 2005/08/11

22:44:00 aslom Exp \$

\*/

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jar/org/xmlpull/v1/builder/xpath/jaxen/BaseXPath.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/UnionPattern.java,v 1.1

2004/06/16 15:55:41 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:41 \$

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* $Id: UnionPattern.java,v
* 1.1 2004/06/16 15:55:41 aslom Exp $
*/

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Found in path(s):
* /opt/cola/permits/1685970482_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-
jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/UnionPattern.java
No license file was found, but licenses were detected in source scan.

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/*
* $Header:
*/
* /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/SimpleVariableContext.java,v
* 1.1 2004/06/16 15:55:34 aslom Exp $
* $Revision: 1.1 $

```



\* \$Date: 2004/06/16 15:55:34 \$

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SimpleVariableContext.java,v 1.1 2004/06/16 15:55:34 aslom Exp \$

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultDivExpr.java,v 1.1  
2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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\* \$Id: DefaultDivExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$  
\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultDivExpr.java

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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultLogicalExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

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DefaultLogicalExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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1.1 2004/06/16 15:55:36 aslom Exp \$

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 \* \$Id:  
 \* DefaultUnionExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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 \* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
 jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultUnionExpr.java  
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 \* \$Header:  
 /!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableAttributeAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$  
 \* \$Revision: 1.2 \$  
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\* \$Id: IterableAttributeAxis.java,v 1.2 2005/08/11 22:44:01 aslom Exp \$

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/NumberFunction.java,v  
1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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\* \$Id:  
NumberFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/function/NumberFunction.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/NodeTest.java,v 1.2  
2005/08/11 22:44:02 aslom Exp \$  
\* \$Revision: 1.2 \$  
\* \$Date: 2005/08/11 22:44:02 \$

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\* \$Id: NodeTest.java,v  
1.2 2005/08/11 22:44:02 aslom Exp \$  
\*/

Found in path(s):

\*/opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/NodeTest.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/PatternParser.java,v 1.2  
2005/08/11 22:44:02 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:02 \$

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\* \$Id:  
PatternParser.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/patt/v1/builder/xpath/jaxen/function/LocalNameFunction.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/LocalNameFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:40 \$

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\* \$Id: LocalNameFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/function/LocalNameFunction.java

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\* \$Header:

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v 1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:40 \$

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\$Id: SubstringFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/function/SubstringFunction.java

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\* \$Header:

/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/NotFunction.java,v 1.1  
2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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\* \$Id: NotFunction.java,v  
1.1 2004/06/16 15:55:40 aslom Exp \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/function/NotFunction.java  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/ext/LowerFunction.java,  
v 1.2 2005/08/11 22:44:02 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:02 \$

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2004/06/16 15:55:43 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:43 \$

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 XPathReader.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
 jar/org/xmlpull/v1/builder/xpath/saxpath/XPathReader.java

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* $Header:
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/1/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/saxpath/XPathSyntaxException.java,v
1.1 2004/06/16 15:55:43 aslom Exp $
* $Revision: 1.1 $
* $Date: 2004/06/16 15:55:43 $
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/FloorFunction.java,v 1.1  
2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:40 \$

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\* \$Id:  
FloorFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/function/FloorFunction.java  
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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultRelationalExpr.java,

v 1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultRelationalExpr.java

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v 1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

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DefaultLessThanExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/saxpath/SAXPathParseException.java,  
v 1.1 2004/06/16 15:55:43 aslom Exp \$  
\* \$Revision: 1.1 \$  
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\* \$Id: SAXPathParseException.java,v 1.1 2004/06/16 15:55:43 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/saxpath/SAXPathParseException.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/XPathFactory.java,v 1.1  
2004/06/16 15:55:36 aslom Exp \$  
\* \$Revision: 1.1 \$  
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\* \$Id: XPathFactory.java,v  
 1.1 2004/06/16 15:55:36 aslom Exp \$  
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 \* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
 jar/org/xmlpull/v1/builder/xpath/jaxen/expr/XPathFactory.java  
 No license file was found, but licenses were detected in source scan.

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 \* \$Header:  
 /!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultEqualityExpr.java,v  
 1.1 2004/06/16 15:55:36 aslom Exp \$  
 \* \$Revision: 1.1 \$  
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2004/06/16 15:55:36 aslom Exp \$

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\* 1.1 2004/06/16 15:55:36 aslom Exp \$  
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\* /l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/XPathFunctionContext.java,v 1.2  
\* 2005/08/11 22:44:00 aslom Exp \$  
\* \$Revision: 1.2 \$  
\* \$Date: 2005/08/11 22:44:00 \$  
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\* \$Id:  
AnyChildNodeTest.java,v 1.1 2004/06/16 15:55:41 aslom Exp \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/pattern/AnyChildNodeTest.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/CountFunction.java,v  
1.1 2004/06/16 15:55:39 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:39 \$

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 \* \$Id:

CountFunction.java,v 1.1 2004/06/16 15:55:39 aslom Exp \$

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultPredicate.java,v 1.2 2005/08/11 22:44:00 aslom Exp \$

\* \$Revision: 1.2 \$

\* \$Date: 2005/08/11 22:44:00 \$

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DefaultPredicate.java,v 1.2 2005/08/11 22:44:00 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultPredicate.java  
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/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultEqualsExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:36 \$

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 \* \$Id:  
 \* DefaultEqualsExpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultEqualsExpr.java  
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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultXPathFactory.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:36 \$

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\* \$Id:  
DefaultXPathFactory.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$  
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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultXPathFactory.java  
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\* \$Header:  
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/pattern/PatternHandler.java,v 1.2  
2005/08/11 22:44:02 aslom Exp \$  
\* \$Revision: 1.2 \$  
\* \$Date: 2005/08/11 22:44:02 \$

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PatternHandler.java,v 1.2 2005/08/11 22:44:02 aslom Exp \$

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java,v 1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

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v 1.1 2004/06/16 15:55:39 aslom Exp \$

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 DocumentFunction.java,v 1.1 2004/06/16 15:55:39 aslom Exp \$  
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xpr.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

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jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultVariableReferenceExpr.java

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/RoundFunction.java,v  
1.1 2004/06/16 15:55:40 aslom Exp \$

\* \$Revision: 1.1 \$

\* \$Date: 2004/06/16 15:55:40 \$

\*

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\* \$Id:  
RoundFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
\*/

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\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/function/RoundFunction.java  
No license file was found, but licenses were detected in source scan.

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\* \$Header:  
/!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/function/StringLengthFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp \$  
\* \$Revision: 1.1 \$  
\* \$Date: 2004/06/16 15:55:40 \$

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* $Id: StringLengthFunction.java,v 1.1 2004/06/16 15:55:40 aslom Exp $
*/
```

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jar/org/xmlpull/v1/builder/xpath/jaxen/function/StringLengthFunction.java
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/*
* $Header:
/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/util/IdentityHashMap.java,v 1.1
2004/06/16 15:55:42 aslom Exp $
* $Revision: 1.1 $
* $Date: 2004/06/16 15:55:42 $
*
* =====
```

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 \* \$Id: IdentityHashMap.java,v  
 \* 1.1 2004/06/16 15:55:42 aslom Exp \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
 jar/org/xmlpull/v1/builder/xpath/jaxen/util/IdentityHashMap.java

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 \* \$Header:  
 /!extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/iter/IterableNamespaceAxis.  
 java,v 1.2 2005/08/11 22:44:01 aslom Exp \$  
 \* \$Revision: 1.2 \$  
 \* \$Date: 2005/08/11 22:44:01 \$

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\* \$Header:

/l/extreme/cvs/codes/XPP3/java/src/java/xpath/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultAbsoluteLocationPath.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$

\* \$Revision: 1.1 \$

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\* \$Id: DefaultAbsolutePath.java,v 1.1 2004/06/16 15:55:36 aslom Exp \$

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\* \$Revision: 1.1 \$

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\* \$Id: Step.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$  
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2004/06/16 15:55:36 aslom Exp \$

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 \* \$Id: LocationPath.java,v  
 1.1 2004/06/16 15:55:36 aslom Exp \$  
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2004/06/16 15:55:36 aslom Exp \$

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\*

\* \$Id: DefaultOrExpr.java,v  
1.1 2004/06/16 15:55:36 aslom Exp \$  
\*/

Found in path(s):

\* /opt/cola/permits/1685970482\_1684868889.6285043/0/xpp3-xpath-1-1-4c-sources-3-  
jar/org/xmlpull/v1/builder/xpath/jaxen/expr/DefaultOrExpr.java

## 1.279 core-io 1.7.18

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# Jackson JSON processor

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# 1.280 jdbi3-sqlobject 3.27.2

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-->
```

Found in path(s):

```
* /opt/cola/permits/1685970409_1684869139.5852766/0/jdbi3-sqlobject-3-27-2-jar/META-INF/maven/org.jdbi/jdbi3-sqlobject/pom.xml
```

# 1.281 jackson-datatype-guava 2.15.0-rc3

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# 1.282 jackson-module-guice 2.15.0-rc3

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# 1.283 dropwizard-core 2.0.25

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# 1.284 common-utils 7.0.5

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
```

```

<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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-->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

<div class="container">

```

```

<div class="navbar-header">

```

```

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

<span class="sr-only">Toggle navigation</span>

```

```

<span class="icon-bar"></span>

```

```

<span class="icon-bar"></span>

```

```

    <span class="icon-bar"></span>
  </button>
  <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;&a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu"
role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">

```

```

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
  <li><a href="/foundation/contributing.html">Donations</a></li>
  <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
  <li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {

```



visibility: hidden;

}

h2: hover > .headerlink, h3: hover > .headerlink, h1: hover > .headerlink, h6: hover > .headerlink, h4: hover > .headerlink, h5: hover >

.headerlink, dt: hover > .elementid-permalink { visibility: visible }</style>

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="/dev/">Developer Information</a></li>
```

```
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
```

```
<li><a href="/security/">Security</a></li>
```

```
<li><a href="http://status.apache.org">Status</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/press/">Overview</a></li>

<li><a href="https://blogs.apache.org/">ASF News</a></li>

<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>

<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>

<li><a href="/press/#contact">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/legal/">Legal Affairs</a></li>

<li><a href="/licenses/">Licenses</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/records/">Public Records</a></li>

<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>

<li><a href="/licenses/exports/">Export Information</a></li>

<li><a

href="/foundation/license-faq.html">License/Distribution FAQ</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

<div class="row">

<div class="col-lg-12">

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</div>

</div>

</div>

</footer>

<!-- / Footer -->

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: \*

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Files: core/\*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
```

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.clt { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```

```
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```

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```
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Copyright (C) &lt;year>; &lt;name of author>;</blockquote>
<blockquote>This program is free software; you can redistribute it and/or modify it under the terms of the GNU
General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your
option) any later version.</blockquote>
<blockquote>This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS
FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.</blockquote>
<blockquote>You should have received a copy of the GNU General Public License along with this program; if not,
write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307
USA</blockquote>
```

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```
<blockquote>Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with
```

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</body>

</html>

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

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<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
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</head>
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```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
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```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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<li><p><b>1. Definitions.</b></p>
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<b>1.1. "Contributor" means each individual or
entity that creates or contributes to the creation of
Modifications.
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<ul>

<li>

<p>

One line to give the program's name and a brief idea of what it does.

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<p>

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</p>

<p>

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<ul>

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</ul>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

</p>

<p>

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

</p>

<ul>

<li>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989<br />

Ty Coon, President of Vice

</p>

</li>

</ul>

<p>

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

</p>

</li>

<li style="background-color:yellow;">

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<p>

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</p>

<p>

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<p>

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</p>

</li>

</ul>

</body>

</html>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.



## ## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Licenses</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
  rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">
```

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</head>

<body>

<!--

Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="/foundation">Overview</a></li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

<li><a href="/foundation/preFAQ.html">FAQ</a></li>

<li><a href="/foundation/contact.html">Contact</a></li>

</ul>

</li>

<li><a href="/index.html#projects-list">Projects</a></li>

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="http://people.apache.org/">Overview</a></li>

<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>

```

<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
  
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];

```

```

    s.parentNode.insertBefore(gcse, s);
  })();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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<p>All software produced by The Apache Software Foundation or any of its
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of the documents
listed below.</p>
<h3 id="2.0">Apache License, Version 2.0 (current)<a class="headerlink" href="#2.0" title="Permanent
link">&para;</a></h3>
<p><a href="LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> (
<a href="LICENSE-2.0.txt">TXT</a> or <a href="LICENSE-2.0.html">HTML</a> )</p>
<p>The 2.0 version of the Apache License was approved by the ASF in 2004. The
goals of this license revision have been to reduce the number of frequently
asked questions, to allow the license to be reusable without modification

```

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The

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<p>Your Full name will be published unless you provide an alternative Public name. For example if your full name is Andrew Bernard Charles Dickens, but you wish to be known as Andrew Dickens, please enter the latter as your Public name.</p>

<p>The email address and other contact details are not published.</p>

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<h1 id="submitting">Submitting License Agreements and Grants<a class="headerlink" href="#submitting" title="Permanent link">&para;</a></h1>

<p>Documents may be submitted by fax or email.</p>

<p>If submitting by fax, please print, sign, and fax all pages of the document to +1-919-573-9199. Please send documents right-side-up, first page first; and send only one document per fax.</p>

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Please send only one document per email.</p>

<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>

<blockquote>

<p>gpg --armor --detach-sign icla.pdf</p>

</blockquote>

<p>The above will create

a file icla.pdf.asc. Send both the file and signature as attachments in the same email to secretary@apache.org. Please send only one document (file plus signature) per email. Please do not submit your public key to Apache. Instead, please upload your public key to pgpkeys.mit.edu. </p>

<p>The files typically are named icla.pdf and icla.pdf.asc for individual agreements; ccla.pdf and ccla.pdf.asc for corporate agreements; software-grant.pdf and software-grant.pdf.asc for grants. </p>

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<p>For export restriction information, please consult our <a href="/licenses/exports/">ASF Export Classifications</a> page.</p>

<h1 id="trademarks">Trademark and Logo Usage<a class="headerlink" href="#trademarks" title="Permanent link">&para;</a></h1>

<p>For ASF trademark and logo usage information, please consult our <a href="/foundation/marks/">ASF Trademark Use Policy</a> page.</p>

<h1 id="questions">Questions?<a class="headerlink" href="#questions" title="Permanent link">&para;</a></h1>

<p>For answers to frequently asked licensing questions, please consult our

<a href="/foundation/license-faq.html">Licensing Frequently Asked Questions</a> page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get

Involved</a></li>

<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://incubator.apache.org/">Incubator</a></li>

<li><a href="http://labs.apache.org/">Labs</a></li>

<li><a href="/licenses/">Licensing</a></li>

<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

```
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
```

```
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
```



</div>

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

This product currently only contains code developed by authors of specific components, as identified by the source code files; if such notes are missing files have been created by Tatu Saloranta.

For additional credits (generally to people who reported problems) see CREDITS file.

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Version 2.0, January 2004

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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```

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\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/InOutParameter.java  
\*  
/opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/ExtractIndexAndSql.java  
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\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/BatchingStatementWrapper.java  
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\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/ExpandedVariable.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/GroovyRowResult.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/GroovyResultSetExtension.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/ResultSetMetaDataWrapper.java  
\*  
/opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/org/apache/groovy/sql/extensions/SqlExtensions.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/SqlWhereVisitor.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/BatchingPreparedStatementWrapper.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/SqlOrderByVisitor.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/DataSet.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/GroovyResultSet.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/SqlWithParams.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/OutParameter.java  
\*  
/opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/InParameter.java  
\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/Sql.java  
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\* /opt/cola/permits/1685970460\_1684868973.3436244/0/groovy-sql-3-0-10-sources-jar/groovy/sql/package.html

# 1.289 neo4j-java-driver 4.4.1

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## 1.293 jdbi3-jodatime2 3.21.0

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Found in path(s):

\* /opt/cola/permits/1685970543\_1684868825.7251709/0/jdbi3-jodatime2-3-21-0-sources-1-jar/META-INF/maven/org.jdbi/jdbi3-jodatime2/pom.xml

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Found in path(s):

\* /opt/cola/permits/1685970543\_1684868825.7251709/0/jdbi3-jodatime2-3-21-0-sources-1-jar/org/jdbi/v3/jodatime2/package.html

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Found in path(s):

\* /opt/cola/permits/1685970543\_1684868825.7251709/0/jdbi3-jodatime2-3-21-0-sources-1-jar/org/jdbi/v3/jodatime2/JodaTimePlugin.java

\* /opt/cola/permits/1685970543\_1684868825.7251709/0/jdbi3-jodatime2-3-21-0-sources-1-jar/org/jdbi/v3/jodatime2/DateTimeMapper.java

\* /opt/cola/permits/1685970543\_1684868825.7251709/0/jdbi3-jodatime2-3-21-0-sources-1-jar/org/jdbi/v3/jodatime2/DateTimeArgumentFactory.java

## 1.294 kafka-schema-registry-client 7.0.5

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## # Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<meta name="description" content="Home page of The Apache Software Foundation">
```

```
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
```

```
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
```

```
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
```

```
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
```

```
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
```

```
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
```

```

<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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-->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

<div class="container">

```

```

<div class="navbar-header">

```

```

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

<span class="sr-only">Toggle navigation</span>

```

```

<span class="icon-bar"></span>

```

```

<span class="icon-bar"></span>

```

```

<span class="icon-bar"></span>

```

```

</button>

```

```

<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

</div>

```

```

<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;<a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu"
role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org/">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>

```

```

        </ul>
    </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
    <div class="col-md-9 col-sm-8 col-xs-12">
        
    </div>
    <div class="col-md-3 col-sm-4 col-xs-12">
        <div class="input-group" style="margin-bottom: 5px;">
            <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
</div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >

```

.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>  
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Footer

```

<footer class="bg-primary">
<div class="container">
  <div class="row">
    <br />
    <div class="col-sm-1">

</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community
FAQ</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>

  </ul>
</div>

<div class="col-sm-2">

```

```
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a
href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright © 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
```

```
<html><head>
```

```
<title>301 Moved Permanently</title>
```

```
</head><body>
```

```
<h1>Moved Permanently</h1>
```

```
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
```

```
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: \*

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Files: core/\*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-
registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-
tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h
<SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
```

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.clt { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```
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```

```
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```

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<strong>

```
<p><strong>&quot;CLASSPATH&quot; EXCEPTION TO THE GPL VERSION 2</strong><br /><br />
```

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</body>

</html>

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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<li><p><b>1. Definitions.</b></p>
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<b>1.1. &ldquo;Contributor&rdquo;</b> means each individual or
entity that creates or contributes to the creation of
Modifications.
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<b>1.2. &ldquo;Contributor Version&rdquo;</b> means
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means this document.

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<b>B.</b> Any new file that contains any part of the Original Software or previous Modification; or

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<p>  
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<p>

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<p>

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<p><b>3. Distribution Obligations.</b></p>

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</ul>

</body>
</html>
```

```
# Jackson JSON processor
```

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

```
## Licensing
```

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact

FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Licenses</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

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```
</head>
```

```
<body>
```

```
<!--
```

```
Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```
<li><a href="/foundation/how-it-works.html">Process</a></li>
```

```
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
```

```
<li><a href="/foundation/glossary.html">Glossary</a></li>
```

```
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
```

```
<li><a href="/foundation/contact.html">Contact</a></li>
```

```
</ul>
```

```
</li>
```

```
<li><a href="/index.html#projects-list">Projects</a></li>
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="http://people.apache.org/">Overview</a></li>
```

```
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
```

```
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
```

```
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
```

```
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
```

```
</ul>
```

```
</li>
```

```

<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
  
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>

```

```

    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
  </div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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listed below.</p>
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link">&para;</a></h3>
<p><a href="LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> (
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included by reference instead of listed in every file, to clarify the
license on submission of contributions, to require a patent license on
contributions that necessarily infringe the contributor's own patents, and
to move comments regarding Apache and other inherited attribution notices

```

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The

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<p>The email address and other contact details are not published.</p>

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<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>

<blockquote>

<p>gpg --armor --detach-sign icla.pdf</p>

</blockquote>

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Trademark Use Policy

Questions?

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Community

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- Summer of Code
- Getting Started
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- Community FAQ

Innovation

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- Labs
- Licensing
- Licensing FAQ
- Trademark Policy
- Contacts

Tech Operations

- Developer Information
- Infrastructure
- Security

```
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
```

```
</footer>
```

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

This product currently only contains code developed by authors of specific components, as identified by the source code files; if such notes are missing files have been created by Tatu Saloranta.

For additional credits (generally to people who reported problems) see CREDITS file.

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Version 2.0, January 2004

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# 1.295 jdbi3-core 3.27.2

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```

Found in path(s):

```
* /opt/cola/permits/1685970292_1684868810.1832447/0/jdbi3-core-3-27-2-1-jar/META-INF/maven/org.jdbi/jdbi3-core/pom.xml
```

# 1.296 metrics-jdbi3 4.1.25

## 1.296.1 Available under license :

Apache-2.0

# 1.297 dropwizard-jdbi3 2.0.25

## 1.297.1 Available under license :

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

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<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
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<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

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<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
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```

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-->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu"

```

```

role="menu">
  <li><a href="/foundation">Overview</a></li>
  <li><a href="/foundation/members.html">Members</a></li>
  <li><a href="/foundation/how-it-works.html">Process</a></li>
  <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
  <li><a href="/foundation/glossary.html">Glossary</a></li>
  <li><a href="/foundation/preFAQ.html">FAQ</a></li>
  <li><a href="/foundation/contact.html ">Contact</a></li>
  </ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</nav>
</header>

```

```

<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >
.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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Footer

```
Footer  
  
  

```

```
</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community
FAQ</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/legal/">Legal Affairs</a></li>

<li><a href="/licenses/">Licenses</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/records/">Public Records</a></li>

<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>

<li><a href="/licenses/exports/">Export Information</a></li>

<li><a

href="/foundation/license-faq.html">License/Distribution FAQ</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

<div class="row">

<div class="col-lg-12">

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</div>

</div>

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
```

```
<html><head>
```

```
<title>301 Moved Permanently</title>
```

```
</head><body>
```

```
<h1>Moved Permanently</h1>
```

```
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
```

```
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: \*

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Files: core/\*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
```

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.cnl { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
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```
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entity that creates or contributes to the creation of
Modifications.
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**1.11. "Patent Claims"** means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

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<b>1.12. &ldquo;Source Code&rdquo;</b> means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

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</p>

</li>

<li>  
<p>NO WARRANTY</p>  
</li>

<li>  
<p>  
<b>11.</b> BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.  
</p>  
</li>

<li>  
<p>  
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</p>  
</li>

<li>  
<p>END OF TERMS AND CONDITIONS</p>  
</li>

<li>  
<p><b>How to Apply These Terms to Your New Programs</b></p>  
<p>  
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.  
</p>  
<p>  
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion

of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<ul>

<li>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

</li>

<li>

<p>

Copyright (C) <year> <name of author>

</p>

</li>

<li>

<p>

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</p>

</li>

<li>

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</p>

</li>

<li>

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</p>

</li>

</ul>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

</p>

<ul>

<li>

<p>

Gnomovision version 69, Copyright (C) year name of author<br />

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type  
`show w'.

This is free software, and you are welcome to redistribute  
it under certain conditions; type `show c' for details.

</p>

</li>

</ul>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

</p>

<p>

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

</p>

<ul>

<li>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989<br />

Ty Coon, President of Vice

</p>

</li>

</ul>

<p>

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proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with  
the library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

</p>

</li>

<li style="background-color:yellow;">

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only where Sun has expressly included in the particular source file's  
header the words<br />

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

</p>

<p>

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</p>

<p>

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</p>

</li>

</ul>

</body>

</html>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Licenses</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
  rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">
```

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```
</head>
```

```
<body>
```

```

<!--
Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation">Overview</a></li>
            <li><a href="/foundation/members.html">Members</a></li>
            <li><a href="/foundation/how-it-works.html">Process</a></li>
            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/glossary.html">Glossary</a></li>
            <li><a href="/foundation/preFAQ.html">FAQ</a></li>
            <li><a href="/foundation/contact.html ">Contact</a></li>
          </ul>
        </li>
        <li><a href="/index.html#projects-list">Projects</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="http://people.apache.org/">Overview</a></li>
            <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
            <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
            <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
            <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>
            <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
          </ul>
        </li>
      </ul>
    </div>
  </div>
</nav>

```

```

    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
  <li><a href="/dyn/closer.cgi">Download</a></li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
  </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
  <div class="row">
    <div class="col-md-9 col-sm-8 col-xs-12">
      
    </div>
    <div class="col-md-3 col-sm-4 col-xs-12">
      <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '/cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>

```



```

<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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<a href="#clas">contributions from individuals and corporations</a>, and to accept
larger <a href="#grants">grants of existing software products</a>.</p>
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their work within Apache.</p>
<h1 id="distributions">Licensing of Distributions<a class="headerlink" href="#distributions" title="Permanent
link">&para;</a></h1>
<p>All software produced by The Apache Software Foundation or any of its
projects or subjects is licensed according to the terms
of the documents
listed below.</p>
<h3 id="2.0">Apache License, Version 2.0 (current)<a class="headerlink" href="#2.0" title="Permanent
link">&para;</a></h3>
<p><a href="LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> (
<a href="LICENSE-2.0.txt">TXT</a> or <a href="LICENSE-2.0.html">HTML</a> )</p>
<p>The 2.0 version of the Apache License was approved by the ASF in 2004. The
goals of this license revision have been to reduce the number of frequently
asked questions, to allow the license to be reusable without modification
by any project (including non-ASF projects), to allow the license to be
included by reference instead of listed in every file, to clarify the
license on submission of contributions, to require a patent license on
contributions that necessarily infringe the contributor's own patents, and
to move comments regarding Apache and other inherited attribution notices
to a location outside the license terms (the <a href="example-NOTICE.txt">NOTICE
file</a> ).</p>
<p>The
result is a license that is supposed to be compatible with other open
source licenses, while remaining true to the original goals of the Apache
Group and supportive of collaborative development across both nonprofit and
commercial organizations. The Apache Software Foundation is still trying to

```

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Your Full name will be published unless you provide an alternative Public name. For example if your full name is Andrew Bernard Charles Dickens, but you wish to be known as Andrew Dickens, please enter the latter as your Public name.

<p>The email address and other contact details are not published.</p>  
<h1 id="grants">Software Grants<a class="headerlink" href="#grants" title="Permanent link">&para;</a></h1>  
<p>When an individual or corporation decides to donate a body of existing software or documentation to one of the Apache projects, they need to execute a formal <a href="software-grant-template.pdf">Software Grant Agreement</a> (SGA) with the ASF. Typically, this is done after negotiating approval with the ASF <a href="http://incubator.apache.org/">Incubator</a> or one of the PMCs, since the ASF will not accept software unless there is a viable community available to support a collaborative project.</p>  
<h1 id="submitting">Submitting License Agreements and Grants<a class="headerlink" href="#submitting" title="Permanent link">&para;</a></h1>  
<p>Documents may be submitted by fax or email.</p>  
<p>If submitting by fax, please print, sign, and fax all pages of the document to +1-919-573-9199. Please send documents right-side-up, first page first; and send only one document per fax.</p>  
<p>If submitting by email, please fill the form with a pdf viewer, print, sign, scan all pages into a single pdf file, and email the pdf file as an attachment to secretary@apache.org. If possible, send the attachment from the email address in the document. Please send only one document per email.</p>  
<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>  
<blockquote>  
<p>gpg --armor --detach-sign icla.pdf</p>  
</blockquote>  
<p>The above will create a file icla.pdf.asc. Send both the file and signature as attachments in the same email to secretary@apache.org. Please send only one document (file plus signature) per email. Please do not submit your public key to Apache. Instead, please upload your public key to pgpkeys.mit.edu. </p>  
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<h1 id="crypto">Export restrictions<a class="headerlink" href="#crypto" title="Permanent link">&para;</a></h1>  
<p>For export restriction information, please consult our <a href="/licenses/exports/">ASF Export Classifications</a> page.</p>  
<h1 id="trademarks">Trademark and Logo Usage<a class="headerlink" href="#trademarks" title="Permanent link">&para;</a></h1>  
<p>For ASF trademark and logo usage information, please consult our <a href="/foundation/marks/">ASF Trademark Use Policy</a> page.</p>  
<h1 id="questions">Questions?<a class="headerlink" href="#questions" title="Permanent link">&para;</a></h1>  
<p>For answers to frequently asked licensing questions, please consult our <a href="/foundation/license-faq.html">Licensing Frequently Asked Questions</a> page.</p></div>  
<!-- Footer -->

```

<footer class="bg-primary">
<div class="container">
  <div class="row">
    <br />
    <div class="col-sm-1">

</div>
<div class="col-sm-2">
  <h5 class="white">Community</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://community.apache.org/">Overview</a></li>
    <li><a href="/foundation/conferences.html">Conferences</a></li>
    <li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
    <li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
    <li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
    <li><a href="/travel/">Travel Assistance</a></li>
    <li><a href="/foundation/getinvolved.html">Get
Involved</a></li>
    <li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Innovation</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="http://incubator.apache.org/">Incubator</a></li>
    <li><a href="http://labs.apache.org/">Labs</a></li>
    <li><a href="/licenses/">Licensing</a></li>
    <li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Press</h5>

```

```
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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## 1.302 kafka-schema-serializer 7.0.5

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
```

```

<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
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<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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-->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

<div class="container">

```

```

<div class="navbar-header">

```

```

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

<span class="sr-only">Toggle navigation</span>

```

```

<span class="icon-bar"></span>

```

```

<span class="icon-bar"></span>

```

```

    <span class="icon-bar"></span>
  </button>
  <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;&nbsp;<a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu"
role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org/">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">

```

```

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
  <li><a href="/foundation/contributing.html">Donations</a></li>
  <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
  <li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {

```

visibility: hidden;

}

h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover > .headerlink, h5:hover >

.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="/dev/">Developer Information</a></li>
```

```
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
```

```
<li><a href="/security/">Security</a></li>
```

```
<li><a href="http://status.apache.org">Status</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/press/">Overview</a></li>

<li><a href="https://blogs.apache.org/">ASF News</a></li>

<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>

<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>

<li><a href="/press/#contact">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/legal/">Legal Affairs</a></li>

<li><a href="/licenses/">Licenses</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/records/">Public Records</a></li>

<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>

<li><a href="/licenses/exports/">Export Information</a></li>

<li><a

href="/foundation/license-faq.html">License/Distribution FAQ</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

<div class="row">

<div class="col-lg-12">

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</div>

</div>

</div>

</footer>

<!-- / Footer -->

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
```

```
<html><head>
```

```
<title>301 Moved Permanently</title>
```

```
</head><body>
```

```
<h1>Moved Permanently</h1>
```

```
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
```

```
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: \*

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Files: core/\*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
```

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.clt { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```

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```
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```



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</html>

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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

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<html lang="en-US">
```

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<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
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```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
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```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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<li><p><b>1. Definitions.</b></p>
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<b>1.1. "Contributor" means each individual or  
entity that creates or contributes to the creation of  
Modifications.
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<b>1.12. &ldquo;Source Code&rdquo;</b> means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

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<b>12.</b> IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</p>

</li>

<li>

<p>END OF TERMS AND CONDITIONS</p>

</li>

<li>

<p><b>How to Apply These Terms to Your New Programs</b></p>

<p>

If you develop a new program, and you want it to be of the greatest possible

use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</p>

<p>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<ul>

<li>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

</li>

<li>

<p>

Copyright (C) <year> <name of author>

</p>

</li>

<li>

<p>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

</p>

</li>

<li>

<p>

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

</p>

</li>

<li>

<p>

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc.,

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

</p>

</li>

</ul>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

</p>

<ul>

<li>

<p>

Gnomovision version 69, Copyright (C) year name of author<br />

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

</p>

</li>

</ul>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

</p>

<p>

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

</p>

<ul>

<li>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989<br />

Ty Coon, President of Vice

</p>

</li>

</ul>

<p>

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

</p>

</li>

<li style="background-color:yellow;">

<p><b>"CLASSPATH" EXCEPTION TO THE GPL VERSION 2</b></p>

<p>

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

</p>

<p>

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

</p>

<p>

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

</p>

</li>

</ul>

</body>

</html>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## ## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Licenses</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
  rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">
```

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</head>

<body>

<!--

Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="/foundation">Overview</a></li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

<li><a href="/foundation/preFAQ.html">FAQ</a></li>

<li><a href="/foundation/contact.html ">Contact</a></li>

</ul>

</li>

<li><a href="/index.html#projects-list">Projects</a></li>

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="http://people.apache.org/">Overview</a></li>

<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>

```

<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
  
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
  <div class="input-group" style="margin-bottom: 5px;">
  <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];

```



```

    s.parentNode.insertBefore(gcse, s);
  })();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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software and documentation</a>, to accept regular
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larger <a href="#grants">grants of existing software products</a>.</p>
<p>These licenses help us achieve our goal of providing reliable and
long-lived software products through collaborative open source software
development. In all cases, contributors retain full rights to use their
original contributions for any other purpose outside of Apache while
providing the ASF and its projects the right to distribute and build upon
their work within Apache.</p>
<h1 id="distributions">Licensing of Distributions<a class="headerlink" href="#distributions" title="Permanent
link">&para;</a></h1>
<p>All software produced by The Apache Software Foundation or any of its
projects or subjects is licensed according to the terms
of the documents
listed below.</p>
<h3 id="2.0">Apache License, Version 2.0 (current)<a class="headerlink" href="#2.0" title="Permanent
link">&para;</a></h3>
<p><a href="LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> (
<a href="LICENSE-2.0.txt">TXT</a> or <a href="LICENSE-2.0.html">HTML</a> )</p>
<p>The 2.0 version of the Apache License was approved by the ASF in 2004. The
goals of this license revision have been to reduce the number of frequently
asked questions, to allow the license to be reusable without modification

```

by any project (including non-ASF projects), to allow the license to be included by reference instead of listed in every file, to clarify the license on submission of contributions, to require a patent license on contributions that necessarily infringe the contributor's own patents, and to move comments regarding Apache and other inherited attribution notices to a location outside the license terms (the <example-NOTICE.txt> file).

The

result is a license that is supposed to be compatible with other open source licenses, while remaining true to the original goals of the Apache Group and supportive of collaborative development across both nonprofit and commercial organizations. The Apache Software Foundation is still trying to determine if this version of the Apache License is [compatible with the GPL](GPL-compatibility.html).

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The 1.1 version of the Apache License was approved by the ASF in 2000. The

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### Apache License, Version 1.0 (historic) [Permanent link](#1.0 "Permanent link")

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This is the original Apache License which applies only to older versions of Apache packages (such as version 1.2 of the Web server).

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The purpose of this agreement is to clearly define the terms under which intellectual property has been contributed to the ASF and thereby allow us to defend the project should there be a legal dispute regarding the software at some future time. A signed ICLA is required to be on file before an individual is given commit rights to an ASF project.

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intellectual property via the corporation, that may have been assigned as part of an employment agreement. Note that a Corporate CLA does not remove the need for every developer to sign their own ICLA as an individual, to cover any of their contributions which are not owned by the corporation signing the CCLA.</p>

<p>The ICLA is not tied to any employer you may have, so it is recommended to use one's personal email address in the contact details, rather than an @work address.</p>

<p>Your Full name will be published unless you provide an alternative Public name. For example if your full name is Andrew Bernard Charles Dickens, but you wish to be known as Andrew Dickens, please enter the latter as your Public name.</p>

<p>The email address and other contact details are not published.</p>

<h1 id="grants">Software Grants<a class="headerlink" href="#grants" title="Permanent link">&para;</a></h1>

<p>When an individual or corporation decides to donate a body of existing software or documentation to one of the Apache projects, they need to execute a formal <a href="software-grant-template.pdf">Software Grant Agreement</a> (SGA) with the ASF. Typically, this is done after negotiating approval with the ASF <a href="http://incubator.apache.org/">Incubator</a> or one of the PMCs, since the ASF will not accept software unless there is a viable community available to

support a collaborative project.</p>

<h1 id="submitting">Submitting License Agreements and Grants<a class="headerlink" href="#submitting" title="Permanent link">&para;</a></h1>

<p>Documents may be submitted by fax or email.</p>

<p>If submitting by fax, please print, sign, and fax all pages of the document to +1-919-573-9199. Please send documents right-side-up, first page first; and send only one document per fax.</p>

<p>If submitting by email, please fill the form with a pdf viewer, print, sign, scan all pages into a single pdf file, and email the pdf file as an attachment to secretary@apache.org. If possible, send the attachment from the email address in the document.

Please send only one document per email.</p>

<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>

<blockquote>

<p>gpg --armor --detach-sign icla.pdf</p>

</blockquote>

<p>The above will create

a file icla.pdf.asc. Send both the file and signature as attachments in the same email to secretary@apache.org. Please send only one document (file plus signature) per email. Please do not submit your public key to Apache. Instead, please upload your public key to pgpkeys.mit.edu. </p>

<p>The files typically are named icla.pdf and icla.pdf.asc for individual agreements; ccla.pdf and ccla.pdf.asc for corporate agreements; software-grant.pdf and software-grant.pdf.asc for grants. </p>

<h1 id="crypto">Export restrictions<a class="headerlink" href="#crypto" title="Permanent link">&para;</a></h1>

<p>For export restriction information, please consult our <a href="/licenses/exports/">ASF Export Classifications</a> page.</p>

<h1 id="trademarks">Trademark and Logo Usage<a class="headerlink" href="#trademarks" title="Permanent link">&para;</a></h1>

<p>For ASF trademark and logo usage information, please consult our <a href="/foundation/marks/">ASF Trademark Use Policy</a> page.</p>

<h1 id="questions">Questions?<a class="headerlink" href="#questions" title="Permanent link">&para;</a></h1>

<p>For answers to frequently asked licensing questions, please consult our

<a href="/foundation/license-faq.html">Licensing Frequently Asked Questions</a> page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get

Involved</a></li>

<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://incubator.apache.org/">Incubator</a></li>

<li><a href="http://labs.apache.org/">Labs</a></li>

<li><a href="/licenses/">Licensing</a></li>

<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

```
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
```

```
<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
```

</div>

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

This product currently only contains code developed by authors of specific components, as identified by the source code files; if such notes are missing files have been created by Tatu Saloranta.

For additional credits (generally to people who reported problems) see CREDITS file.

This copy of Jackson JSON processor is licensed under the Apache (Software) License, version 2.0 ("the License"). See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

<http://www.apache.org/licenses/>

A copy is also included with both the the downloadable source code package and jar that contains class bytecodes, as file "ASL 2.0". In both cases, that file should be located next to this file: in source distribution the location should be "release-notes/asl"; and in jar "META-INF/" Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

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jar/org/jdbi/v3/guava/GuavaArguments.java

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jar/org/jdbi/v3/guava/GuavaCollectors.java

\*

/opt/cola/permits/1685970365\_1684869119.7833457/0/jdbi3-guava-3-21-0-sources-1-  
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\*

/opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/Prefix.java  
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\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/DefinitionParser.java  
\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/Expression.java  
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\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/BaseUnit.java  
\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/FormalStructureComposer.java  
\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/Pair.java  
\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/special/HoldingHandler.java  
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\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/special/Registry.java  
\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/ExpressionComposer.java  
\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/Operator.java  
\* /opt/cola/permits/1685970572\_1684869030.560194/0/ucum-1-0-3-sources-jar/org/fhir/ucum/TokenType.java  
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## 1.308 dropwizard-jackson 2.1.2

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## 1.309 kafka-protobuf-serializer 7.0.5

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
```

```

<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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permissions and limitations under the License.
-->

```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

<div class="container">

```

```

<div class="navbar-header">

```

```

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

<span class="sr-only">Toggle navigation</span>

```

```

<span class="icon-bar"></span>

```

```

<span class="icon-bar"></span>

```



```

    <span class="icon-bar"></span>
  </button>
  <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;&a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu"
role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">

```

```

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
  <li><a href="/foundation/contributing.html">Donations</a></li>
  <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
  <li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {

```

visibility: hidden;

}

h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover > .headerlink, h5:hover >

.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="/dev/">Developer Information</a></li>
```

```
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
```

```
<li><a href="/security/">Security</a></li>
```

```
<li><a href="http://status.apache.org">Status</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/press/">Overview</a></li>

<li><a href="https://blogs.apache.org/">ASF News</a></li>

<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>

<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>

<li><a href="/press/#contact">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/legal/">Legal Affairs</a></li>

<li><a href="/licenses/">Licenses</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/records/">Public Records</a></li>

<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>

<li><a href="/licenses/exports/">Export Information</a></li>

<li><a

href="/foundation/license-faq.html">License/Distribution FAQ</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-1">

</div>

</div>

<hr class="col-lg-12 hr-white" />

<div class="row">

<div class="col-lg-12">

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</div>

</div>

</div>

</footer>

<!-- / Footer -->



```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="https://opensource.org/licenses/mit-license.php">here</a>.</p>
</body></html>
```

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: \*

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
```

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.clt { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```

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</html>

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

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<html lang="en-US">
```

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<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li {display: block;}
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

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<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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<li><p><b>1. Definitions.</b></p>
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<b>1.1. &ldquo;Contributor&rdquo;</b> means each individual or  
entity that creates or contributes to the creation of  
Modifications.
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rights. These restrictions translate to certain responsibilities  
for you if you distribute copies of the software, or if you modify it.

</p>

<p>  
For example, if you distribute copies of such a program, whether  
gratis or for a fee, you must give the recipients all the rights  
that you have. You must make sure that they, too, receive or can get  
the source code. And you must show them these terms so they know  
their rights.

</p>

<p>  
We protect your rights with two steps: (1) copyright the software,



and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

</p>

<p>

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If

the software is modified by someone else and passed on,

we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

</p>

<p>

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

</p>

<p>

The precise terms and conditions for copying, distribution and modification follow.

</p>

<p><b>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</b></p>

<ul style="margin-left:0; padding-left:0; border-left:0">

<li>

<p>

<b>0.</b> This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be

distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

</p>

<p>

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

</p>

</li>

<li>

<p>

**1.** You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

</p>

<p>

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

</p>

</li>

<li>

<p>

**2.** You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

</p>

<ul>

<li>

<p>

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

</p>

</li>

<li>

<p>

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

</p>

</li>

<li>

<p>

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception:

if the Program itself is interactive

but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

</p>

</li>

</ul>

<p>

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

</p>

<p>

Thus, it is not the intent of this section to claim rights or contest your rights to work written

entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

</p>

<p>

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

</p>

</li>

<li>

<p>

**3.** You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

</p>

<ul>

<li>

<p>

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

</li>

<li>

<p>

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

</li>

<li>

<p>

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

</p>

</li>

</ul>

<p>

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the

source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</p>

<p>

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

</p>

</li>

<li>

<p>

**4.** You may not copy, modify, sublicense, or distribute the Program except

as expressly provided under this License. Any attempt

otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However,

parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

</p>

</li>

<li>

<p>

**5.** You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

</p>

</li>

<li>

<p>

**6.** Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

</p>

</li>

<li>

<p>

**7.** If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then

as a consequence you may not distribute the Program at all.

For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

</p>

<p>

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

</p>

<p>

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices.

Many people have made generous contributions

to the wide range of software

distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

</p>

<p>

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

</p>

</li>

<li>

<p>

**8.** If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

</p>

</li>

<li>

<p>

**9.** The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

</p>

<p>

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

</p>

</li>

<li>

<p>

<b>10.</b> If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for

permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

</p>

</li>

<li>

<p>NO WARRANTY</p>

</li>

<li>

<p>

<b>11.</b> BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

</p>

</li>

<li>

<p>

<b>12.</b> IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</p>

</li>

<li>

<p>END OF TERMS AND CONDITIONS</p>

</li>

<li>

<p><b>How to Apply These Terms to Your New Programs</b></p>

<p>

If you develop a new program, and you want it to be of the greatest possible

use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</p>

<p>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<ul>

<li>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

</li>

<li>

<p>

Copyright (C) <year> <name of author>

</p>

</li>

<li>

<p>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

</p>

</li>

<li>

<p>

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</p>

</li>

<li>

<p>

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc.,



59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

</p>

</li>

</ul>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

</p>

<ul>

<li>

<p>

Gnomovision version 69, Copyright (C) year name of author<br />

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

</p>

</li>

</ul>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

</p>

<p>

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

</p>

<ul>

<li>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989<br />

Ty Coon, President of Vice

</p>

</li>

</ul>

<p>

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

</p>

</li>

<li style="background-color:yellow;">

<p><b>"CLASSPATH" EXCEPTION TO THE GPL VERSION 2</b></p>

<p>

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular source file's header the words<br />

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

</p>

<p>

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

</p>

<p>

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

</p>

</li>

</ul>

</body>

</html>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## ## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Licenses</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
  rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">
```

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</head>

<body>

<!--

Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="/foundation">Overview</a></li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

<li><a href="/foundation/preFAQ.html">FAQ</a></li>

<li><a href="/foundation/contact.html">Contact</a></li>

</ul>

</li>

<li><a href="/index.html#projects-list">Projects</a></li>

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="http://people.apache.org/">Overview</a></li>

<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>

```

<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
  
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
  <div class="input-group" style="margin-bottom: 5px;">
    <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];

```

```

    s.parentNode.insertBefore(gcse, s);
  })();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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larger <a href="#grants">grants of existing software products</a>.</p>
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their work within Apache.</p>
<h1 id="distributions">Licensing of Distributions<a class="headerlink" href="#distributions" title="Permanent
link">&para;</a></h1>
<p>All software produced by The Apache Software Foundation or any of its
projects or subjects is licensed according to the terms
of the documents
listed below.</p>
<h3 id="2.0">Apache License, Version 2.0 (current)<a class="headerlink" href="#2.0" title="Permanent
link">&para;</a></h3>
<p><a href="LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a> (
<a href="LICENSE-2.0.txt">TXT</a> or <a href="LICENSE-2.0.html">HTML</a> )</p>
<p>The 2.0 version of the Apache License was approved by the ASF in 2004. The
goals of this license revision have been to reduce the number of frequently
asked questions, to allow the license to be reusable without modification

```

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<blockquote>

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</blockquote>

<p>The above will create

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<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>

<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>

<li><a href="/travel/">Travel Assistance</a></li>

<li><a href="/foundation/getinvolved.html">Get

Involved</a></li>

<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://incubator.apache.org/">Incubator</a></li>

<li><a href="http://labs.apache.org/">Labs</a></li>

<li><a href="/licenses/">Licensing</a></li>

<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

```
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
  <h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
```

```
<div class="row">
  <div class="col-lg-12">
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  </div>
```

</div>

</div>

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<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

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```
* /opt/cola/permits/1685970536_1684868750.2718112/0/jdbi3-json-3-27-2-jar/META-INF/maven/org.jdbi/jdbi3-
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```

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*/
```



Found in path(s):

\* /opt/cola/permits/1685970264\_1684868605.8957384/0/dropwizard-jetty-2-0-25-sources-2-jar/io/dropwizard/jetty/LocalIpFilter.java

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Found in path(s):

\* /opt/cola/permits/1685970264\_1684868605.8957384/0/dropwizard-jetty-2-0-25-sources-2-jar/io/dropwizard/jetty/NetUtil.java

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\* /opt/cola/permits/1685970528\_1684868680.5124846/0/dropwizard-logging-2-1-2-sources-

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It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

  <title>Apache License, Version 2.0</title>
  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
  rel='stylesheet' type='text/css'>
  <link href="/css/min.bootstrap.css" rel="stylesheet">
  <link href="/css/styles.css" rel="stylesheet">
```

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-->

</head>

<body>

<!-- Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu"

role="menu">

<li><a href="/foundation">Overview</a></li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

<li><a href="/foundation/preFAQ.html">FAQ</a></li>

<li><a href="/foundation/contact.html ">Contact</a></li>

</ul>

</li>

<li><a href="/index.html#projects-list">Projects</a></li>

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>

```

    <ul class="dropdown-menu" role="menu">
    <li><a href="http://people.apache.org/">Overview</a></li>
    <li><a href="http://people.apache.org/committers-index.html">Committers</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="http://planet.apache.org/">Planet Apache</a></li>
    </ul>
    </li>
    <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
    </li>
    </ul>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">

</div>
<div class="col-md-3 col-sm-4 col-xs-12">
<div class="input-group" style="margin-bottom: 5px;">
<script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';

```

```

gcse.async = true;
gcse.src = (document.location.protocol === 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >
.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
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```

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community  
FAQ</a></li>
```

```
</ul>
```

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://incubator.apache.org/">Incubator</a></li>

<li><a href="http://labs.apache.org/">Labs</a></li>

<li><a href="/licenses/">Licensing</a></li>

<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Tech Operations</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/dev/">Developer Information</a></li>

<li><a href="/dev/infrastructure.html">Infrastructure</a></li>

<li><a href="/security/">Security</a></li>

<li><a href="http://status.apache.org">Status</a></li>

<li><a href="/foundation/contact.html">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/press/">Overview</a></li>

<li><a href="https://blogs.apache.org/">ASF News</a></li>

<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>

<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>

<li><a href="/press/#contact">Contacts</a></li>

</ul>

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="/legal/">Legal Affairs</a></li>

<li><a href="/licenses/">Licenses</a></li>

<li><a href="/foundation/marks/">Trademark Policy</a></li>

<li><a href="/foundation/records/">Public Records</a></li>

<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>

<li><a href="/licenses/exports/">Export Information</a></li>

<li><a

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Upstream-Name: schema-registry

Source: <https://github.com/confluentinc/schema-registry>

Files: \*

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```
cd <SRC_PATH>
```

```
mvn package -DskipTests
```

```
mkdir /tmp/jars
```

```
mkdir /tmp/overrides
```

```
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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<title>Untitled Document</title>
</head>

<body>
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0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk
{ font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.ctl { font-family: "Tahoma"; font-size:
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</html>

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
<head>
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<style type="text/css">
  li {display: block;}
</style>
</head>

<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">

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Any litigation relating to this License shall be subject to the  
jurisdiction of the Federal Courts of the Northern District of  
California and the state courts of the State of California, with  
venue lying in Santa Clara County, California.

</p>

</li>

</ul>

<h3>The GNU General Public License (GPL) Version 2, June 1991</h3>

<p>

Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
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</p>

<p>

Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

</p>

<p><b>Preamble</b></p>

<p>

The licenses for most software are designed to take away your  
freedom to share and change it. By contrast, the GNU General Public  
License is intended to guarantee your freedom to share and change  
free software--to make sure the software is free for all its users.

This General Public License applies to most of the Free Software  
Foundation's software and to any other program whose authors commit  
to using it. (Some other Free Software Foundation software is covered  
by the GNU Library General Public License instead.) You can apply it  
to your programs, too.

</p>

<p>

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you

know you can do these things.

</p>

<p>

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

</p>

<p>

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</p>

<p>

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

</p>

<p>

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If

the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

</p>

<p>

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

</p>

<p>

The precise terms and conditions for copying, distribution and modification follow.

</p>

<p><b>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</b></p>

<ul style="margin-left:0; padding-left:0; border-left:0">

<li>

<p>

<b>0.</b> This License applies to any program or other work which contains a notice placed by the copyright holder saying

it may be

distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

</p>

<p>

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

</p>

</li>

<li>

<p>

<b>1.</b> You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

</p>

<p>

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

</p>

</li>

<li>

<p>

<b>2.</b> You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

</p>

<ul>

<li>

<p>

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

</p>

</li>

<li>

<p>

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

</p>

</li>

<li>

<p>

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception:

if the Program itself is interactive

but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

</p>

</li>

</ul>

<p>

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

</p>

<p>

Thus, it is not the intent of this section to claim rights or contest your rights to work written

entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

</p>

<p>

In addition, mere aggregation of another work not based on the Program

with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

</p>

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<p>

**3.** You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

</p>

<ul>

<li>

<p>

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

</li>

<li>

<p>

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

</li>

<li>

<p>

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

</p>

</li>

</ul>

<p>

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the

source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special

exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</p>

<p>

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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<li>

<p>

**4.** You may not copy, modify, sublicense, or distribute the Program except

as expressly provided under this License. Any attempt

otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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<li>

<p>

**5.** You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

</p>

</li>

<li>

<p>

**6.** Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

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<p>

**7.** If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then

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For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

</p>

<p>

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

</p>

<p>

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Many people have made generous contributions

to the wide range of software

distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

</p>

<p>

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

</p>

</li>

<li>

<p>

**8.** If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries



not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

</p>

</li>

<li>

<p>

**9.** The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

</p>

<p>

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</p>

</li>

<li>

<p>

**10.** If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for

permission. For software which is copyrighted by the Free Software

Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

</p>

</li>

<li>

<p>NO WARRANTY</p>

</li>

<li>

<p>

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SHOULD THE PROGRAM PROVE DEFECTIVE,  
YOU ASSUME THE COST OF ALL NECESSARY  
SERVICING, REPAIR OR CORRECTION.

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<p>

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<li>

<p>END OF TERMS AND CONDITIONS</p>

</li>

<li>

<p><b>How to Apply These Terms to Your New Programs</b></p>

<p>

If you develop a new program, and you want it to be of the greatest possible

use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</p>

<p>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>

<ul>

<li>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

</li>

<li>

<p>

Copyright (C) <year> <name of author>

</p>

</li>

<li>

<p>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

</p>

</li>

<li>

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</p>

</li>

<li>

<p>

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</p>

</li>

</ul>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

</p>

<ul>

<li>

<p>

Gnomovision version 69, Copyright (C) year name of author<br />

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

</p>

</li>

</ul>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

</p>

<p>

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

</p>

<ul>

<li>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989<br />

Ty Coon, President of Vice

</p>

</li>

</ul>

<p>

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

</p>

</li>

<li style="background-color:yellow;">

<p><b>"CLASSPATH" EXCEPTION TO THE GPL VERSION 2</b></p>

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</p>

<p>

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

</p>

<p>

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules,

and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.

</p>

</li>

</ul>

</body>

</html>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## ## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">

<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">

<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">

<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">

<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">

<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">

```

<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Licenses</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

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```
</head>
```

```
<body>
```

```
<!--
```

```
Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```

<div class="collapse navbar-collapse" id="mainnav-collapse">
  <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;<a
href="/licenses/">Licenses</a></div>
  <ul class="nav navbar-nav navbar-right">
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation">Overview</a></li>
        <li><a href="/foundation/members.html">Members</a></li>
        <li><a href="/foundation/how-it-works.html">Process</a></li>
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/glossary.html">Glossary</a></li>
        <li><a href="/foundation/preFAQ.html">FAQ</a></li>
        <li><a href="/foundation/contact.html ">Contact</a></li>
      </ul>
    </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="http://people.apache.org/">Overview</a></li>
        <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
        <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
        <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
        <li><a href="http://planet.apache.org/">Planet Apache</a></li>
      </ul>
    </li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/getinvolved.html">Overview</a></li>
        <li><a href="http://community.apache.org/">Community Development</a></li>
        <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
        <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
      </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
        <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
        <li><a href="/foundation/contributing.html">Donations</a></li>
        <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
        <li><a href="/foundation/thanks.html">Thanks</a></li>
      </ul>
    </li>
  </ul>

```

```

        </ul>
    </div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
    <div class="row">
        <div class="col-md-9 col-sm-8 col-xs-12">
            
        </div>
        <div class="col-md-3 col-sm-4 col-xs-12">
            <div class="input-group" style="margin-bottom: 5px;">
                <script>
(function() {
    var cx = '005703438322411770421:5mgshgrgx2u';
    var gcse = document.createElement('script');
    gcse.type = 'text/javascript';
    gcse.async = true;
    gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
        '//cse.google.com/cse.js?cx=' + cx;
    var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(gcse, s);
})();
</script>
        <gcse:searchbox-only></gcse:searchbox-only>
    </div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
    </div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
    visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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<a href="http://incubator.apache.org/">Incubator</a> or one of the PMCs, since the ASF

will not accept software unless there is a viable community

available to

support a collaborative project.</p>

<h1 id="submitting">Submitting License Agreements and Grants<a class="headerlink" href="#submitting"

title="Permanent link">&para;</a></h1>

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Please send only one document per email.</p>

<p>If you prefer to sign electronically, please fill the form, save it locally (e.g. icla.pdf), and sign the file by preparing a detached PGP signature. For example,</p>

<blockquote>

<p>gpg --armor --detach-sign icla.pdf</p>

</blockquote>

<p>The above will create

a file icla.pdf.asc. Send both the file and signature

as attachments in the same email to secretary@apache.org. Please send only one document (file plus signature) per email. Please do not submit your public key to Apache.

Instead, please upload your public key to pgpkeys.mit.edu. </p>

<p>The files typically are named

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software-grant.pdf and software-grant.pdf.asc for grants. </p>

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<h1 id="trademarks">Trademark and Logo Usage<a class="headerlink" href="#trademarks" title="Permanent link">&para;</a></h1>

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<h1 id="questions">Questions?<a

class="headerlink" href="#questions" title="Permanent link">&para;</a></h1>

<p>For answers to frequently asked licensing questions, please consult our

<a href="/foundation/license-faq.html">Licensing Frequently Asked Questions</a> page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<br />

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

<li><a href="http://community.apache.org/">Overview</a></li>

<li><a href="/foundation/conferences.html">Conferences</a></li>

<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
<li><a href="/travel/">Travel Assistance</a></li>
<li><a href="/foundation/getinvolved.html">Get
Involved</a></li>
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy
Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
<p class="text-center">Copyright &#169; 2016 The Apache Software Foundation, Licensed under the <a
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Foundation.</p>
</div>
</div>
</div>
```

```
</footer>
```

```
<!-- / Footer -->
```

```
<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
```

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## 1.315 jackson-xc 2.15.0-rc3

### 1.315.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Found in path(s):

\* /opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/META-INF/maven/com.doordeck.websecurity/dropwizard-web-security/pom.xml

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\* /opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/com/palantir/websecurity/WebSecurityBundle.java

\* /opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/com/palantir/websecurity/WebSecurityConfigurable.java

\* /opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/com/palantir/websecurity/filters/WebSecurityFilter.java

\* /opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/com/palantir/websecurity/filters/WebSecurityHeaderInjector.java

\* /opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/com/palantir/websecurity/filters/JerseyAwareWebSecurityFilter.java

\* /opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/com/palantir/websecurity/CorsConfiguration.java

\*

/opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/com/palantir/websecurity/ImmutableStyles.java

\* /opt/cola/permits/1685970394\_1684869085.095612/0/dropwizard-web-security-1-2-1-sources-1-jar/com/palantir/websecurity/WebSecurityConfiguration.java

# 1.317 kafka-protobuf-provider 7.0.5

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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<!DOCTYPE html>

<html lang="en">

```
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

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permissions and limitations under the License.
-->

</head>

<body>
<!-- Navigation -->
```

```

<header>
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
    </div>
    <div class="collapse navbar-collapse" id="mainnav-collapse">
      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&a href="/licenses/">Licenses</a></div>
      <ul class="nav navbar-nav navbar-right">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          <ul class="dropdown-menu"
role="menu">
            <li><a href="/foundation">Overview</a></li>
            <li><a href="/foundation/members.html">Members</a></li>
            <li><a href="/foundation/how-it-works.html">Process</a></li>
            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/glossary.html">Glossary</a></li>
            <li><a href="/foundation/preFAQ.html">FAQ</a></li>
            <li><a href="/foundation/contact.html ">Contact</a></li>
          </ul>
        </li>
        <li><a href="/index.html#projects-list">Projects</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="http://people.apache.org">Overview</a></li>
            <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
            <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
            <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
            <li><a href="http://planet.apache.org/">Planet Apache</a></li>
          </ul>
        </li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
          <ul class="dropdown-menu" role="menu">
            <li><a href="/foundation/getinvolved.html">Overview</a></li>
            <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
            <li><a href="http://www.apachecon.com/">ApacheCon</a></li>

```

```

        </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">

            <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
            <li><a href="/foundation/contributing.html">Donations</a></li>
            <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
            <li><a href="/foundation/thanks.html">Thanks</a></li>
        </ul>
    </li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
    
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
        <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '/cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
    <gcse:searchbox-only></gcse:searchbox-only>
</div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>

```

```

<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover >
.headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community
```

```
FAQ</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
```

```
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
```

```
<li><a href="/foundation/marks/">Trademark Policy</a></li>
```

```
<li><a href="/foundation/contact.html">Contacts</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Tech Operations</h5>
```

```
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a
href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
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Foundation.</p>
</div>
```

</div>

</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>

<script src="/js/bootstrap.js"></script>

</body>

</html>

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Upstream-Name: schema-registry

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cp package-schema-registry/target/kafka-schema-registry-package-<VERSION>-package/share/java/schema-registry/*.jar /tmp/jars/
cp package-kafka-serde-tools/target/kafka-serde-tools-package-<VERSION>-package/share/java/kafka-serde-tools/*.jar /tmp/jars/
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
```

```
<title>Untitled Document</title>
```

```
</head>
```

```
<body>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
```

```
<HTML>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.clt { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
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```



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redistribute it under certain conditions; type `show c' for details.
```

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```
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```

```
signature of Ty Coon, 1 April 1989
```

```
Ty Coon, President of Vice
```

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```
style="background-color:yellow;">
```

```
<strong>"CLASSPATH" EXCEPTION TO THE GPL VERSION 2</strong>
```

```
<br />
```

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```
<br />
```

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```
<br />
```

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<p><br />
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</p>
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</body>
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</html>
```

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
```

```
<style type="text/css">
```

```
li { display: block; }
```

```
</style>
```

```
</head>
```

```
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
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<p>  
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<p>  
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</p>

</li>

<li>

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</p>

</li>

<li>

<p>

<b>

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</b>

</p>

<p>

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</p>

</li>

</ul>

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<p>

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</p>

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</p>

<p><b>Preamble</b></p>

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</p>

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use pieces of it in new free programs; and that you

know you can

do these things.

</p>

<p>

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</p>

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</p>

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Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If

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</p>

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</p>

<p>

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</p>

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<li>

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program

is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

</p>

</li>

<li>

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</p>

<p>

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

</p>

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<li>

<p>

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</p>

<ul>

<li>

<p>

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

</p>

</li>

<li>

<p>

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

</p>

</li>

<li>

<p>

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or

else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

</p>

</li>

</ul>

<p>

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

</p>

<p>

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

</p>

<p>

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<p>

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</p>

<ul>

<li>

<p>

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

</li>

<li>

<p>

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</p>

</li>

<li>

<p>

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

</p>

</li>

</ul>

<p>

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source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</p>

<p>

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<li>

<p>

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<li>

<p>

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<p>

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<p>

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</p>

<p>

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</p>

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to the wide range of software

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</p>

<p>

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</li>

<li>

<p>

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<li>

<p>

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</p>

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<li>

<p>

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</p>

</li>

<li>

<p>NO WARRANTY</p>

</li>

<li>

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<li>

<p>

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</p>

</li>

<li>  
<p>END OF TERMS AND CONDITIONS</p>  
</li>

<li>  
<p><b>How to Apply These Terms to Your New Programs</b></p>  
<p>

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</p>  
<p>  
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

</p>  
<ul>  
<li>  
<p>  
One line to give the program's name and a brief idea of what it does.

</p>

</li>

<li>

<p>

Copyright (C) <year> <name of author>

</p>

</li>

<li>

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</p>

</li>

<li>

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</li>

<li>

<p>

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</p>

</li>

</ul>

<p>

Also add information on how to contact you by electronic and paper mail.

</p>

<p>

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

</p>

<ul>

<li>

<p>

Gnomovision version 69, Copyright (C) year name of author<br />

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

</p>

</li>

</ul>

<p>

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

</p>

<p>

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

</p>

<ul>

<li>

<p>

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

</p>

<p>

signature of Ty Coon, 1 April 1989<br />

Ty Coon, President of Vice

</p>

</li>

</ul>

<p>

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</p>

</li>

<li style="background-color:yellow;">

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</p>

<p>

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</p>

<p>

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</p>

</li>

</ul>

</body>

</html>

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has

been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## ## Licensing

Jackson core and extension components may be licensed under different licenses.

To find the details that apply to this artifact see the accompanying LICENSE file.

For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

## ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="Home page of The Apache Software Foundation">

  <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
  <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
  <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
  <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
  <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
  <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
  <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
  <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
  <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
  <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
  <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
  <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
  <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
  <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
  <meta name="msapplication-TileColor" content="#603cba">
  <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
  <meta name="msapplication-config" content="/favicons/browserconfig.xml">
  <meta name="theme-color" content="#303284">

</head>
<title>Licenses</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
```

```
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">
```

<!-- Licensed to the Apache Software Foundation (ASF) under one or more contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership. The ASF licenses this file to you under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0> . Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License. -->

```
</head>
```

```
<body>
```

```
<!--
```

```
Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&nbsp;<a href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```
<li><a href="/foundation/how-it-works.html">Process</a></li>
```

```
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
```

```
<li><a href="/foundation/glossary.html">Glossary</a></li>
```

```
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
```

```
<li><a href="/foundation/contact.html">Contact</a></li>
```

```
</ul>
```

```
</li>
```

```
<li><a href="/index.html#projects-list">Projects</a></li>
```



```

<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
  </ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
  <li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
  <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-4 col-xs-12">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');

```

```

gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover
> .elementid-permalink { visibility: visible }</style>
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<blockquote>

<p>gpg --armor --detach-sign icla.pdf</p>

</blockquote>

<p>The above will create

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icla.pdf and icla.pdf.asc for individual agreements;  
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<!-- Footer -->

<footer class="bg-primary">  
<div class="container">  
<div class="row">  
<br />  
<div class="col-sm-1">  
  
</div>  
<div class="col-sm-2">  
<h5 class="white">Community</h5>  
<ul class="list-unstyled white" role="menu">  
<li><a href="http://community.apache.org/">Overview</a></li>  
<li><a href="/foundation/conferences.html">Conferences</a></li>  
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>  
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>  
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>  
<li><a href="/travel/">Travel Assistance</a></li>  
<li><a href="/foundation/getinvolved.html">Get  
Involved</a></li>  
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>  
</ul>  
</div>

<div class="col-sm-2">  
<h5 class="white">Innovation</h5>  
<ul class="list-unstyled white" role="menu">  
<li><a href="http://incubator.apache.org/">Incubator</a></li>  
<li><a href="http://labs.apache.org/">Labs</a></li>  
<li><a href="/licenses/">Licensing</a></li>  
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>  
<li><a href="/foundation/marks/">Trademark Policy</a></li>

```
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/dev/">Developer Information</a></li>
    <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
    <li><a href="/security/">Security</a></li>
    <li><a href="http://status.apache.org">Status</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/press/">Overview</a></li>
    <li><a href="https://blogs.apache.org/">ASF News</a></li>
    <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
    <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
    <li><a href="/press/#contact">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
  <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
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    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
  </ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
```

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`</div>`

`</div>`

`</div>`

`</footer>`

`<!-- / Footer -->`

`<script src="/js/jquery-2.1.1.min.js"></script>`

`<script src="/js/bootstrap.js"></script>`

`</body>`

`</html>`

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```

Found in path(s):

```
* /opt/cola/permits/1685970490_1684868848.5784805/0/jdbi3-jackson2-3-27-2-jar/META-INF/maven/org.jdbi/jdbi3-jackson2/pom.xml
```

## 1.319 libc-utils 0.7.2-r5

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 \*  
 \* @(#)queue.h 8.5 (Berkeley) 8/20/94  
 \*/

Found in path(s):

\* /opt/cola/permits/1686513755\_1685082238.691036/0/aports-master-main-libc-dev-zip/aports-master-main-libc-dev/main/libc-dev/sys-queue.h

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\*/

Found in path(s):

\* /opt/cola/permits/1686513755\_1685082238.691036/0/aports-master-main-libc-dev-  
zip/aports-master-main-libc-dev/main/libc-dev/sys-tree.h

## 1.320 ssl-client 1.36.0-r9

### 1.320.1 Available under license :

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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```

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of
Vice
```

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## 1.321 aop-alliance 2.6.1

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```
{\rtf1\ansi\ansicpg1252\cocoartf1671\cocoasubrtf600
```

```

{\fonttbl\font0\froman\charset0 Times-Roman;\f1\modern\charset0 Courier;}
{\colortbl;\red255\green255\blue255;\red0\green0\blue0;}
{\*\expandedcolortbl;;\cssrgb\c0\c0\c0;}
\paperw11900\paperh16840\margl1440\margr1440\vieww10800\viewh8400\viewkind0
\defstab720
\pard\pardefstab720\sl280\partightenfactor0

\font0\fs24 \cf2 \expnd0\expndtw0\kerning0
\outl0\strokewidth0 \strokec2 This XML file does not appear to have any style information associated with it. The
document tree is shown below.\
\pard\pardefstab720\sl300\partightenfactor0

\font0\fs26 \cf2 <!--\
\
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\
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https://www.gnu.org/software/classpath/license.html.\
\
SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0\
\
-->\
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
v4_0_0.xsd">\
<modelVersion>4.0.0</modelVersion>\
<parent>\
<groupId>org.glassfish.hk2</groupId>\
<artifactId>external</artifactId>\
<version>2.6.1</version>\
</parent>\
<groupId>org.glassfish.hk2.external</groupId>\
<artifactId>aopalliance-repackaged</artifactId>\
<name>\
aopalliance version ${aopalliance.version} repackaged as a module\
</name>\
<build>\
<plugins>\
<plugin>\
<groupId>org.apache.maven.plugins</groupId>\

```

```

<artifactId>maven-dependency-plugin</artifactId>\
<executions>\
<execution>\
<id>step1-unpack-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>unpack</goal>\
</goals>\
<configuration>\
<artifactItems>\
<artifactItem>\
<groupId>aopalliance</groupId>\
<artifactId>aopalliance</artifactId>\
<version>${aopalliance.version}</version>\
<classifier>sources</classifier>\
<overwrite>>false</overwrite>\
<outputDirectory>${project.build.directory}/alternateLocation</outputDirectory>\
</artifactItem>\
</artifactItems>\
</configuration>\
</execution>\
</executions>\
</plugin>\
<plugin>\
<groupId>org.codehaus.mojo</groupId>\
<artifactId>build-helper-maven-plugin</artifactId>\
<executions>\
<execution>\
<id>step2-add-sources</id>\
<phase>process-sources</phase>\
<goals>\
<goal>add-source</goal>\
</goals>\
<configuration>\
<sources>\
<source>${project.build.directory}/alternateLocation</source>\
</sources>\
</configuration>\
</execution>\
</executions>\
</plugin>\
<plugin>\
<groupId>org.apache.felix</groupId>\
<artifactId>maven-bundle-plugin</artifactId>\
<configuration>\
<instructions>\
<Embed-Dependency>'a0*;scope=compile:inline=true'a0</Embed-Dependency>\
<!--\

```



We set a mandatory attribute for these packages, because we don't want them to be visible to just anyone. An importer must specify the mandatory attribute for it to be able to import. See section #3.6.5 of OSGi R4 spec.

Why is this required?

See [https://glassfish.dev.java.net/issues/show\\_bug.cgi?id=5385](https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385)

By doing this, we allow user have any version of apache-commons lib in their application class loader hierarchy. They don't even have to set `delegation=false` in `sun-web.xml`! This is the true advantage of using OSGi.

Sahoo.

```
-->
<Export-Package>org.aopalliance.*;version=${aopalliance.version}</Export-Package>
<Private-Package>!*</Private-Package>
</instructions>
</configuration>
<executions>
<execution>
<id>osgi-manifest</id>
<phase>process-classes</phase>
<goals>
<goal>manifest</goal>
</goals>
</execution>
</executions>
</plugin>
</plugins>
</build>
<dependencies>
<dependency>
<groupId>aopalliance</groupId>
<artifactId>aopalliance</artifactId>
<version>${aopalliance.version}</version>
<optional>>true</optional>
</dependency>
</dependencies>
</project>
}
```

Found in path(s):

\* /opt/cola/permits/1688041658\_1684928894.4895442/0/aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

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## 1.326 alpine-baselayout-data 3.4.3-r1

## 1.326.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*  
* Create mount directories in fstab  
*  
* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>  
* May be distributed under the terms of GPL-2  
*  
* usage: mkmntdirs [fstab]  
*  
*/
```

Found in path(s):

```
*/opt/cola/permits/1690300026_1684996389.3603017/0/alpine-baselayout-master-zip/alpine-baselayout-master/src/mkmntdirs.c
```

## 1.327 opentelemetry-sdk 1.24.0

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## 1.328 opentelemetry-semconv 1.24.0-alpha

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## 1.330 scanelf 1.3.7-r1

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Any

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Version 3.1, 31 March 2009

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## 1.333 openssl 3.1.1-r1

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```

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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
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```

```
<signature of Ty Coon>, 1 April 1989
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```

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