



Open Source Used In AppDynamics_Cloud_Common_Inge stion_Service 23.11.0

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JUnit

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1.2 commons-configuration 1.8

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1.3 json-simple 1.1

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1.4 animal-sniffer-annotation 1.0

1.4.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/47" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/CDDL-1.0" />
  <meta name="MobileOptimized" content="width" />
  <title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWtJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css"
rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

  <!--[if (lt IE 9)]>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ooglib" media="all" />
```

<![endif]-->

<!-- HTML5 element support for IE6-8 -->

<!--[if lt IE 9]>

<script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>

<![endif]-->

<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>

<script type="text/javascript">

<!--//--><![CDATA[//><!--

window.jQuery

|| document.write("<script src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")

//--><![>

</script>

<script type="text/javascript"

src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>

<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>

<script type="text/javascript">

<!--//--><![CDATA[//><!--

jQuery(document).ready(function(\$) {

\$(window).scroll(function() {

if(\$(this).scrollTop() != 0) {

\$("#toTop").fadeIn();

} else {

\$("#toTop").fadeOut();

}

});

\$("#toTop").click(function() {

\$("body,html").animate({scrollTop:0},800);

});

});

//--><![>

</script>

<script type="text/javascript"

src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>

<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-

eI6tkX8wrKak2siiZU.js"></script>

<script

type="text/javascript">

<!--//--><![CDATA[//><!--

jQuery.extend(Drupal.settings,

{"basePath":"","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"D5bF-

vfxh3x4rhnCcr3T2k7ur5CHjnreBuWt15Py_f8","js":{"code.jquery.com/jquery-

1.10.2.min.js":1,"0":1,"misc/jquery.once.js":1,"misc/drupal.js":1,"maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js

/bootstrap.min.js":1,"1":1,"sites/all/libraries/superfish/jquery.hoverIntent.minified.js":1,"sites/all/libraries/supe

rfish/sftouchscreen.js":1,"sites/all/libraries/superfish/sfsmallscreen.js":1,"sites/all/libraries/superfish/suppositi

```
on.js":1,"sites/all/libraries/superfish/superfish.js":1,"sites/all/libraries/superfish/supersubs.js":1,"sites/all/modules/superfish/superfish.js":1,"sites/all/themes/bootstrap-business/js/jquery.browser.min.js":1},"css":{"modules/system/system.base.css":1,"modules/system/system.menus.css":1,"modules/system/system.messages.css":1,"modules/system/system.theme.css":1,"modules/aggregator/aggregator.css":1,"modules/comment/comment.css":1,"modules/field/theme/field.css":1,"sites/all/modules/molloom/molloom.css":1,"modules/node/node.css":1,"modules/search/search.css":1,"modules/user/user.css":1,"sites/all/modules/views/css/views.css":1,"sites/all/modules/ctools/css/ctools.css":1,"\\maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css":1,"sites/all/libraries/superfish/css/superfish.css":1,"sites/all/themes/bootstrap-business/css/style.css":1,"sites/all/themes/bootstrap-business/color/colors.css":1,"sites/all/themes/bootstrap-business/css/local.css":1,"sites/all/themes/bootstrap-business/css/ie8.css":1}},urlIsAjaxTrusted":{"\\licenses/cddl1.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width"},"addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":false},"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}});
```

```
//--><![]]>
```

```
</script>
```

```
</head>
```

```
<body
```

```
class="html not-front not-logged-in no-sidebars page-node page-node- page-node-47 node-type-page" >
```

```
<div id="skip-link">
```

```
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
```

```
</div>
```

```
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>
```

```
<!-- #header-top -->
```

```
<div id="header-top" class="clearfix">
```

```
<div class="container">
```

```
<!-- #header-top-inside -->
```

```
<div id="header-top-inside" class="clearfix">
```

```
<div class="row">
```

```
<div class="col-md-8">
```

```
<!-- #header-top-left -->
```

```
<div id="header-top-left" class="clearfix">
```

```
<div class="region
```

```
region-header-top-left">
```

```
<div id="block-menu-secondary-menu" class="block block-menu clearfix">
```

```
<div class="content">
```

```
<ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
```

```
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
```

```
<li class="leaf"><a href="/contact" title="">Contact</a></li>
```

```
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
```



```

</ul> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-left -->
</div>

    <div class="col-md-4">
    <!-- #header-top-right -->
    <div id="header-top-right" class="clearfix">
        <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/cddl1.php" method="post" id="search-block-form" accept-charset="UTF-8"><div><div
class="container-inline">
    <h2 class="element-invisible">Search form</h2>
    <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /><input type="hidden" name="form_build_id" value="form-
KxXCPRthSHIavIFsWuRt0aA5XfPKSjxX6XBfkcMCQPQ" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
    </div>
    <!-- EOF:#header-top-right -->
</div>

    </div>
    </div>
    <!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

```

```

<!-- #header-inside -->
<div id="header-inside" class="clearfix">
  <div class="row">
    <div class="col-md-8">

      <div id="logo">
        <a href="/" title="Home" rel="home">  </a>
      </div>

      <div id="site-name">
        <a href="/" title="Home">Open Source Initiative</a>
      </div>

    </div>

    <div class="col-md-4">

  </div>
</div>
<!-- EOF: #header-inside -->
-->

</div>
</header>
<!-- EOF: #header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
  <div class="container">

    <!-- #main-navigation-inside -->
    <div id="main-navigation-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <nav role="navigation">
            <div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">

<div class="content">
  <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a

```

[History](/history "History of the OSI")

- [Board](/board "Board of Directors")
 - [Board - Annotated](/docs/board-annotated "OSI Board -- With Annotations")
 - [Minutes](/minutes "Public Minutes of Board Meetings")
 - [Organization & Operations](/organization "These portfolios represent the activities of the current OSI board.")
 - [Articles of Incorporation](/articles-of-incorporation "OSI incorporation record")
 - [Board Elections](/elections)
 - [Bylaws](/bylaws "Bylaws of the Open Source Initiative")
 - [Conflict of Interest](/conflict_of_interest_policy)
 - [Trademark & Logo](/trademark)
 - [Trademark Guidelines](/trademark-guidelines "OSI's Trademark Policy")
 - [Logo Guidelines](/logo-usage-guidelines "Guidelines for appearance and usage of OSI Logo")
 - [Terms of Service](/ToS "Rules for posting content on this site")
 - [Licenses](/licenses)
 - [Open Source Definition](/osd "The actual OSD defining what constitutes an Open Source licence")
 - [OSD - Annotated](/osd-annotated "The OSD with explanations and rationale interspersed.")
 - [Licenses by Category](/licenses/category "Licenses by Category")
 - [Licenses by Name](/licenses/alphabetical "Licenses that are approved by the OSI as conforming to the OSD")
 - [License Review Process](/approval "Certifying licences as OSD-compliant")
 - [Licence Proliferation](/proliferation "Supporting choice while maintaining sanity")
 - [LP report to the Board](/proliferation-report "License Proliferation Committee's report to the OSI Board")
 - [Open Standards](/osr-intro "Open Standards Requirement for Software")
 - [The Open Standards Requirement](/osr "An 'open standard' must not prohibit conforming implementations in open source software.")
 - [Open Standards Requirement Compliance](/osr-compliance)
 - [---

Open Source Used In AppDynamics_Cloud_Common_Ingestion_Service 23.11.0 35](/osr-rationale)

3">Open Standards

[OSR Frequently Asked Questions](/osr-faq "Frequently asked questions about the Open Standards Requirement")

[Membership](/membership "Page for our various membership programs")

[Individuals](/members)

[Join](/civicism/contribute/transact?reset=1&id=1)

[Affiliates](/affiliates "Home page for OSI's membership scheme for non-profits and not-for-profits")

[Become an Affiliate](/affiliates/about)

[List of Affiliates](/affiliates/list "Full list of non-profits and not-for-profits affiliated to OSI")

[Affiliate Criteria](/AffiliateRequirements)

[Sponsors & Support](/sponsors)

[Community](/community "Page for our various community members.")

[Mailing lists](/lists "The virtual committees where the OSI's work gets done")

[General Code of Conduct](/codeofconduct "Guidelines for OSI Mailing Lists")

[Licensing Code of Conduct](/codeofconduct/licensing)

[Disclaimer for OSI Public Forums](/public_forums_disclaimer)

[Policy on Public Communications and Archives](/public_archives_policy)

[Volunteers](/volunteers)

[Wiki](http://wiki.opensource.org)

[OSI Store](/store)

[Resources](/resources "Page offering resources to OSI personas")

[FAQ](/faq "Frequently Asked Questions about open source and about the OSI.")

[OSI Board Blog](/blog "A group blog / aggregation point for OSI Board Member blogs")

[Getting Help](/help "Resources for questions and further exploration")

[Bibliography](/links "Links and References to Open Source")

[---

Open Source Used In AppDynamics_Cloud_Common_Ingestion_Service 23.11.0 36](/advocacy/case_for_business.php "How to</p></div><div data-bbox=")

```
advocate Open Source to businesses" class="sf-depth-3">Open Source Case for Business</a></li></ul></li><li
id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children"><a href="/working_groups" class="sf-
depth-2">Working Groups</a></li><li
id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children"><a href="/osi-open-source-education"
title="OSI&#039;s Open Source Education Initiative and Activities" class="sf-depth-2">Open Source
Education</a></li></ul></li><li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-
parent-children-0 sf-single-children-2 menuparent"><a href="/news" title="Page dedicated to the latest news and
events." class="sf-depth-1 menuparent">News & Events</a><ul><li id="menu-1845-1" class="first odd sf-
item-1 sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of newsletters" class="sf-depth-
2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a
href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
```

```
</div>
```

```
</div>
```

```
</nav>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation-inside -->
```

```
</div>
```

```
</div>
```

```
<!--
```

```
EOF: #main-navigation -->
```

```
<!-- #page -->
```

```
<div id="page" class="clearfix">
```

```
<!-- #main-content -->
```

```
<div id="main-content">
```

```
<div class="container">
```

```
<!-- #messages-console -->
```

```
<!-- EOF: #messages-console -->
```

```
<div class="row">
```

```
<section class="col-md-12">
```

```
<!-- #main -->
```

```
<div id="main" class="clearfix">
```

```
<!-- EOF:#content-wrapper -->
```

```

<div id="content-wrapper">

                                <h1 class="page-title">Common Development and Distribution
License (CDDL-1.0)</h1>

                                <!-- #tabs -->

                                <div class="tabs">
                                    </div>
                                <!-- EOF: #tabs -->

                                <!-- #action links -->
                                <!-- EOF: #action links -->

                                <div class="region region-content">
                                <div id="block-system-main" class="block block-system clearfix">

                                <div class="content">
                                <article id="node-47" class="node node-page clearfix">

                                <div class="content">
                                <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><div align="right">
                                <button onclick="myFunction()">Further resources on <b>CDDL-1.0</b></button>

                                <p id="demo"></p>

                                <script>
                                <!--//--><![CDATA[// ><!--

                                function myFunction() {
                                    var x;
                                    if (confirm("Disclaimer: While the OSI acknowledges these as potentially
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these websites. Any links to these resources across opensource.org are solely for navigational purposes. The OSI
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") == true) {
                                        x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/common-development-and-distribution-license-%28cddl-1.0%29-explained
style='font-weight: bold;'>Common Development and Distribution License (CDDL-1.0) on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License

```

```
List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a href=choosealicense.com>Choosealicense";
    } else {
        x = " ";
    }
    document.getElementById("demo").innerHTML = x;
}

!--><![>
</script></div>
```

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE

Version 1.0 (CDDL-1.0)

(text)

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```
</li></ul></div></div></div> </div>
```

```
</article> </div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF:#content-wrapper -->
```

```
</div>
```

```
<!-- EOF:#main -->
```

```
</section>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF:#main-content -->
```

```
</div>
```

```
<!-- EOF:#page -->
```

```
<footer id="subfooter" class="clearfix">
```

```
<div class="container">
```

```
<!-- #subfooter-inside -->
```

```
<div id="subfooter-inside" class="clearfix">
```

```
<div class="row">
```

```
<div class="col-md-12">
```

```
<!-- #subfooter-left -->
```

```
<div class="subfooter-area">
```

```
<div class="region region-footer">
```

```
<div id="block-block-11" class="block block-block clearfix">
```

```
<div class="content">
```

```
<div class="filler" style="vertical-align: middle; display: inline-block;">
```

```
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
```



```
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<script id="fbwiuwz">
<!--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&url=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.insertBefore(f,s);})('fbwiuwz');
//--><![ ]>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
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</p>
<p>
<a href=" ../ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
<script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
```

```

<!--><![CDATA[// ><!--

//><!]]>
</script><script type="text/javascript">
<!--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//><!]]>
</script>
</div>
</div>
</div>

</div>
<!-- EOF: #subfooter-left -->
</div>
</div>
</div>
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>

```

1.5 annotations 13.0

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```

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* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Identifier.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Pattern.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Language.java

*

/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/PrintFormat.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/RegExp.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Subst.java

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* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/Nullable.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/NonNls.java
*
/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/PropertyKey.java

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* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/JdkConstants.java
* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/NotNull.java
*
/opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/MagicConstant.java

1.6 hdrhistogram 2.1.9

1.6.1 Available under license :

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```

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```

Found in path(s):

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/WriterReaderPhaser.java
```

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```

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* @author Gil Tene  
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```

Found in path(s):

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/AtomicHistogram.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/RecordedValuesIterator.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/DoubleRecorder.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/ShortCountsHistogram.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/EncodableHistogram.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/ZigZagEncoding.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/HistogramLogReader.java  
*
```

```
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/DoublePercentileIterator.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/DoubleHistogramIterationValue.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/DoubleHistogram.java
```

```
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-  
jar/org/HdrHistogram/HistogramIterationValue.java
```

* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AbstractHistogram.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ConcurrentHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AbstractHistogramLogReader.java
*
/opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/LinearIterator.java
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*/

Found in path(s):

* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/package-info.java

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*
* @author Gil Tene
*/

package org.HdrHistogram;

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

Found in path(s):

* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java.template

1.7 jboss-logging 3.3.2.Final

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1.8 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.9 failureaccess 1.0.1

1.10 javax-ws-rs-api 2.1.1

1.11 commons-collections 4.4

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Jiri Bilek
Julien Furgerot
Julien May
Juraci Krohling
Justin Nauman
Kathryn Killebrew
Kazuki Shimizu
Kevin Pollet
Khalid Alqinyah
Lee KyoungIl
Leonardo Loch Zanivan
Lucas Pouzac

Lukas Niemeier
Mark Hobson
Marko Bekhta
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Michal Fotyga
Nicola Ferraro
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Paolo Perrotta
Pete Muir
Rob Dickinson
Sanne Grinovero
Sebastian Bayerl
Shahram Goodarzi
Shane Bryzak
Shelly McGowan
Sjaak Derksen
Steve Ebersole
Strong Liu
Tadhg Pearson
Takashi Aoe
Tomaz
Cerar
Tommy Johansen
Victor Rezende dos Santos
Willi Schnborn
Xavier Sosnovsky
Yanming Zhou
Yoann Rodire
Hibernate Validator, declare and validate application constraints

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1.17 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
*
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/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-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-
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/CtClassType.java
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/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
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/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
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* /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


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* /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
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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-
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* /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
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jar/javassist/bytecode/SyntheticAttribute.java
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jar/javassist/compiler/ProceedHandler.java
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jar/javassist/bytecode/ExceptionsAttribute.java
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jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/AnnotationDefaultAttribute.java
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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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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/MethodDecl.java
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 /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/CompileError.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/Handler.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/ByteStream.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java
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 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformCall.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Symbol.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/ByteArrayClassPath.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/AccessorMaker.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/Lex.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/ASTList.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/expr/MethodCall.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/SerialVersionUID.java
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 /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/runtime/Cflow.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/convert/Transformer.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/AnnotationsAttribute.java
 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/LocalVariableTypeAttribute.java
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 * /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java

* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiArrayType.java

*

/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/reflect/Metaobject.java

* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/stackmap/MapMaker.java

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

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

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

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

* /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-jar/javassist/compiler/Javac.java

* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/ControlFlow.java

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

* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/analysis/Executor.java

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

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

* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java

* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java

*

/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/DeprecatedAttribute.java

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

* /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

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/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
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
*

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/opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ClassMemberValue.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-
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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-
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
```

1.18 classmate 1.5.1

1.18.1 Available under license :

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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

1.19 jakarta-validation-api 2.0.2

1.19.1 Available under license :

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

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* /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-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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1.24 hk2-utils 2.6.1

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1.26 resourcelocator 1.0.3

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1.27 jakarta-inject 2.6.1

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1.28 asm 3.2

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jar/org/objectweb/asm/util/ASMifierFieldVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/FieldNode.java
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/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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jar/org/objectweb/asm/util/TraceMethodVisitor.java
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jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/MethodVisitor.java

* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/TraceFieldVisitor.java
 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
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 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/FieldVisitor.java
 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/EmptyVisitor.java
 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
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 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
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 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ByteVector.java
 * /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-

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jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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jar/org/objectweb/asm/tree/AnnotationNode.java
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/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassWriter.java
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/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-  
jar/org/objectweb/asm/xml/SAXClassAdapter.java  
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-  
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/Processor.java  
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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jar/org/objectweb/asm/tree/analysis/package.html
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/util/package.html
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/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/attrs/package.html
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/signature/package.html

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* <https://github.com/eclipse-ee4j/jersey>

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1.37 httpcore5-h 5.0.2

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1.41 jersey 2.34

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1.43 jakarta-ws-rs-api 3.0.0

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1.48 Iz4-java 1.7.1

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1.49 zstd-jni 1.5.0-2

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1.50 opentracing-api 0.33.0

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jar/io/opentracing/tag/IntOrStringTag.java

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jar/io/opentracing/log/Fields.java

* /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/Tracer.java

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/opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-

jar/io/opentracing/SpanContext.java

* /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-jar/io/opentracing/tag/Tags.java

* /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-

jar/io/opentracing/propagation/BinaryInject.java

* /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-

jar/io/opentracing/propagation/BinaryExtract.java

* /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-

jar/io/opentracing/propagation/TextMapExtract.java

* /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-

jar/io/opentracing/tag/StringTag.java

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jar/io/opentracing/propagation/BinaryAdapters.java

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* /opt/cola/permits/1257211210_1642789561.33/0/opentracing-api-0-33-0-sources-
jar/io/opentracing/propagation/Binary.java
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1.51 opentracing-util 0.33.0

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* /opt/cola/permits/1257211068_1642789583.52/0/opentracing-util-0-33-0-sources-jar/io/opentracing/util/ThreadLocalScopeManager.java

* /opt/cola/permits/1257211068_1642789583.52/0/opentracing-util-0-33-0-sources-jar/io/opentracing/util/GlobalTracer.java

1.52 opentracing-noop 0.33.0

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* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopScopeManager.java

* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopSpanContext.java

* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-jar/io/opentracing/noop/NoopTracerFactory.java

```
*  
/opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-  
jar/io/opentracing/noop/NoopTracer.java  
* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-  
jar/io/opentracing/noop/NoopSpan.java  
* /opt/cola/permits/1257210881_1642789614.43/0/opentracing-noop-0-33-0-sources-  
jar/io/opentracing/noop/NoopSpanBuilder.java
```

1.53 hikaricp 4.0.3

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/PoolBase.java
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/HikariJNDIFactory.java

* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/HikariPool.java

*

/opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java

* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/MetricsTracker.java

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jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTrackerFactory.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyResultSet.java

* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyConnection.java

* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java

*

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jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
*
```

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/opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/UtilityElf.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/util/PropertyElf.java
*
/opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/pool/ProxyStatement.java
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jar/com/zaxxer/hikari/metrics/PoolStats.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-
jar/com/zaxxer/hikari/util/ClockSource.java

```

1.54 common-utils 5.5.1

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1.55 kafka-schema-registry-client 5.5.1

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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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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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  <meta http-equiv="X-UA-Compatible" content="IE=edge">
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  <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">
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  <link rel="manifest" href="/favicons/manifest.json">
  <link rel="shortcut icon" href="/favicons/favicon.ico">
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  <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">

Toggle navigation

</button>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

About

<ul class="dropdown-menu"

role="menu">

Overview

Members

Process

Sponsorship

Glossary

FAQ

Contact

Projects

<li class="dropdown">

People

<ul class="dropdown-menu" role="menu">

Overview

Committers

Meritocracy

Roles

Planet Apache

```

    </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 >
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```
<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]
```

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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">
    <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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```
<!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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"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>
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<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.cml { font-family: "Tahoma"; font-size:
12pt; font-weight: normal } -->
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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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</p>

<p>

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</p>

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<p>

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</p>

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</p>

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know you can

do these things.

</p>

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</p>

<p>

The precise terms and conditions for copying, distribution and modification follow.

</p>

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<p>

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<p>

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</p>

<p>

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</p>

<p>

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</p>

<p>

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if the Program itself is interactive

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</p>

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</p>

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<p>

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<p>

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</p>

<p>

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</p>

<p>

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</p>

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</p>

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</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>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

<p>

Copyright (C) <year> <name of author>

</p>

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</p>

<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>

<p>

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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</p>

<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>

<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

Ty Coon, President of Vice

</p>

<p>

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</p>

<li style="background-color:yellow;">

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<p>

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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>

</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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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 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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Please send only one document per email.

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```
<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">
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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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1.56 common-config 5.5.1

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1.57 kafka-schema-serializer 5.5.1

1.57.1 Available under license :

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```
<project xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://maven.apache.org/POM/4.0.0"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">

  <modelVersion>4.0.0</modelVersion>

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    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-parent</artifactId>
    <version>5.5.1</version>
  </parent>
```

```

<licenses>
  <license>
    <name>Apache License 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
    <distribution>repo</distribution>
  </license>
</licenses>

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<name>kafka-schema-serializer</name>

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  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
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  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>common-config</artifactId>
  </dependency>

  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
</project>

```

Found in path(s):

* /opt/cola/permits/1257321157_1642800614.05/0/kafka-schema-serializer-5-5-1-jar/META-INF/maven/io.confluent/kafka-schema-serializer/pom.xml

1.58 kafka-avro-serializer 5.5.1

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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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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;&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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<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]

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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>
```


</div>

<div class="col-sm-2">

<h5 class="white">Press</h5>

<ul class="list-unstyled white" role="menu">

Overview

ASF News

Announcements

Twitter Feed

Contacts

</div>

<div class="col-sm-2">

<h5 class="white">Legal</h5>

<ul class="list-unstyled white" role="menu">

Legal Affairs

Licenses

Trademark Policy

Public Records

Privacy Policy

Export Information

License/Distribution FAQ

Contacts

</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>
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```
</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 } -->
```

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<BODY DIR="LTR">
```

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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">
```

```
<h3>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h3>
```

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<ul>
```

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<li><p><b>1. Definitions.</b></p>
```

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<ul>
```

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<li>
```

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<p>
```

```
<b>1.1. "Contributor" means each individual or  
entity that creates or contributes to the creation of  
Modifications.
```

```
</p>
```

```
</li>
```


<p>

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<p>

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<p>

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<p>

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</p>

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<p>How to Apply These Terms to Your New Programs</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>

<p>

One line to give the program's name and a brief idea of what it does.

</p>

<p>

Copyright (C) <year> <name of author>

</p>

<p>

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59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

</p>

<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>

<p>

Gnomovision version 69, Copyright (C) year name of author

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>

<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>

<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

Ty Coon, President of Vice

</p>

<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 style="background-color:yellow;">

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<p>

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</p>

</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">

Toggle navigation

</button>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left">Home » Licenses</div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

About

<ul class="dropdown-menu" role="menu">

Overview

Members

Process

Sponsorship

Glossary

FAQ

Contact

Projects

<li class="dropdown">

People

<ul class="dropdown-menu" role="menu">

Overview

Committers


```

<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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their work within Apache.</p>
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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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The

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<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>

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support a collaborative project.</p>

<h1 id="submitting">Submitting License Agreements and Grants¶</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¶</h1>

<p>For export restriction information, please consult our ASF Export Classifications page.</p>

<h1 id="trademarks">Trademark and Logo Usage¶</h1>

<p>For ASF trademark and logo usage information, please consult our ASF Trademark Use Policy page.</p>

<h1 id="questions">Questions?¶</h1>

<p>For answers to frequently asked licensing questions, please consult our

Licensing Frequently Asked Questions page.</p></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

Travel Assistance

Get

Involved

Community FAQ

</div>

<div class="col-sm-2">

<h5 class="white">Innovation</h5>

<ul class="list-unstyled white" role="menu">

Incubator

Labs

Licensing

Licensing FAQ

Trademark Policy

Contacts

</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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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

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1.59 argparse 0.8.1

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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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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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jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java

* /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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1.60 jetty-setuid-java 1.0.4

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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
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1.61 zjsonpatch 0.3.0

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* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/NodeType.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonDiff.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/NoopProcessor.java
*
/opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/ApplyProcessor.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/Constants.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/CompatibilityFlags.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatchApplicationException.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatchProcessor.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/InvalidJsonPatchException.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/Operation.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatch.java
*
/opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Diff.java

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1.62 profiler 1.1.1

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* Includes Sizzle.js
* http://sizzlejs.com/
* Copyright 2011, The Dojo Foundation
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*
* 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

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/*

* jQuery Templates Plugin 1.0.0pre

* <http://github.com/jquery/jquery-tmpl>

* Requires jQuery 1.4.2

*

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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
```

1.63 jcip-annotation 1.0-1

1.63.1 Available under license :

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*/
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Found in path(s):

```
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/Immutable.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/NotThreadSafe.java
* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/ThreadSafe.java
*
/opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/GuardedBy.java
```

1.64 jakarta-el 4.0.2

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1.65 reflections 0.9.10

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1.66 protobuf-java-format 1.2

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1.67 jakarta-inject-api 2.0.1

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1.68 logback-throttling-appender 1.1.0

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1.69 javax-annotation-api 1.3.2

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1.71 jul-to-slf4j 1.7.36

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```

1.72 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
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1.73 jcl-over-slf4j 1.7.36

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1.74 logback-core 1.2.11

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1.75 simpleclient-common 0.15.0

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1.76 animal-sniffer-annotation 1.21

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1.77 gson 2.9.0

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jar/com/google/gson/ToNumberStrategy.java
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jar/com/google/gson/ToNumberPolicy.java

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 - * /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
 - * /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/TypeAdapters.java
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 - /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
 - * /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
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 - * /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
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 - *
 - /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
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jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
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jar/com/google/gson/JsonStreamParser.java  
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-  
jar/com/google/gson/FieldAttributes.java  
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonParser.java  
*  
/opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-  
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```

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*/

Found in path(s):

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/LinkedTreeMap.java

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

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Found in path(s):

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/\$Gson\$Types.java

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Found in path(s):

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/stream/JsonReader.java

```
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/stream/JsonScope.java
*
/opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/stream/JsonWriter.java
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```

```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/Gson.java
*
/opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-
jar/com/google/gson/internal/$Gson$Preconditions.java
```


* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/FieldNamingStrategy.java
*
/opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonArray.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonParseException.java
*
/opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/Primitives.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonNull.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
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* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/Streams.java

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/JsonSyntaxException.java

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Found in path(s):

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/LazilyParsedNumber.java

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java

*

/opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/ConstructorConstructor.java

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/DateTypeAdapter.java

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java

* /opt/cola/permits/1331093984_1653033295.598981/0/gson-2-9-0-sources-1-jar/com/google/gson/internal/bind/TreeTypeAdapter.java

1.78 perfmark-api 0.25.0

1.78.1 Available under license :

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1.79 activation-api 1.2.2

1.79.1 Available under license :

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1.80 metrics-health-checks 4.1.17

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Apache-2.0

1.81 simpleclient_tracer_otel_agent 0.15.0

1.81.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1362667461_1657728042.0528543/0/simpleclient-tracer-otel-agent-0-15-0-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel_agent/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1644098835491

Build-Jdk: 11.0.13

Built-By: fabian

Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Span Context Supplier - OpenTelemetry Agent

Bundle-SymbolicName: io.prometheus.simpleclient_tracer_otel_agent

Bundle-Version: 0.15.0

Created-By: Apache Maven Bundle Plugin

Export-Package: io.prometheus.client.exemplars.tracer.otel_agent;uses:="

io.prometheus.client.exemplars.tracer.common";version="0.15.0"

Import-Package: io.opentelemetry.api.trace,io.prometheus.client.exemplars.tracer.common;version="[0.15,1)"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

* /opt/cola/permits/1362667461_1657728042.0528543/0/simpleclient-tracer-otel-agent-0-15-0-2-jar/META-INF/MANIFEST.MF

1.82 simpleclient 0.15.0

1.82.1 Available under license :

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*

* Source: <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12>

*/

Found in path(s):

* /opt/cola/permits/1362667164_1657728031.6917062/0/simpleclient-0-15-0-sources-1-jar/io/prometheus/client/DoubleAdder.java

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* /opt/cola/permits/1362667164_1657728031.6917062/0/simpleclient-0-15-0-sources-1-jar/io/prometheus/client/CKMSQuantiles.java

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Found in path(s):

* /opt/cola/permits/1362667164_1657728031.6917062/0/simpleclient-0-15-0-sources-1-jar/META-INF/maven/io.prometheus/simpleclient/pom.xml

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*

* Source: <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10>

*/

Found in path(s):

* /opt/cola/permits/1362667164_1657728031.6917062/0/simpleclient-0-15-0-sources-1-jar/io/prometheus/client/Striped64.java

1.83 simpleclient_tracer_otel 0.15.0

1.83.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1362667798_1657728128.698827/0/simpleclient-tracer-otel-0-15-0-sources-1-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel/pom.xml

1.84 simpleclient_tracer_common 0.15.0

1.84.1 Available under license :

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Manifest-Version: 1.0

Bnd-LastModified: 1644098817942

Build-Jdk: 11.0.13

Built-By: fabian

Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Span Context Supplier - Common

Bundle-SymbolicName: io.prometheus.simpleclient_tracer_common

Bundle-Version: 0.15.0

Created-By: Apache Maven Bundle Plugin

Export-Package: io.prometheus.client.exemplars.tracer.common;version="0.15.0"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

* /opt/cola/permits/1362667286_1657728055.6656199/0/simpleclient-tracer-common-0-15-0-2-jar/META-INF/MANIFEST.MF

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Found in path(s):

* /opt/cola/permits/1362667286_1657728055.6656199/0/simpleclient-tracer-common-0-15-0-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_common/pom.xml

1.85 kafka-protobuf-serializer 5.5.1

1.85.1 Available under license :

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```
<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/xsd/maven-4.0.0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<parent>
```

```
<groupId>io.confluent</groupId>
```

```
<artifactId>kafka-schema-registry-parent</artifactId>
```

```
<version>5.5.1</version>
```

```
</parent>
```

```
<licenses>
```

```
<license>
```

```
<name>Confluent Community License</name>
```

```
<url>http://www.confluent.io/confluent-community-license</url>
```

```
<distribution>repo</distribution>
```

```
</license>
```

```
<license>
```

```
<name>Apache License 2.0</name>
```

```
<url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
```

```
<distribution>repo</distribution>
```

```
</license>
```

```
</licenses>
```

```
<artifactId>kafka-protobuf-serializer</artifactId>
```

```
<packaging>jar</packaging>
```

```
<name>kafka-protobuf-serializer</name>
```

```
<dependencies>
```

```
<dependency>
```

```
<groupId>org.apache.kafka</groupId>
```

```
<artifactId>kafka_${kafka.scala.version}</artifactId>
```

```
<scope>provided</scope>
```

```
</dependency>
```

```
<dependency>
```

```
<groupId>io.confluent</groupId>
```

```
<artifactId>kafka-protobuf-provider</artifactId>
```

```
</dependency>
```

```
<dependency>
```

```
<groupId>com.google.protobuf</groupId>
```

```
<artifactId>protobuf-java-util</artifactId>
```

```
</dependency>
```



```

<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-serializer</artifactId>
</dependency>
<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry-client</artifactId>
</dependency>
<dependency>
  <groupId>io.confluent</groupId>
  <artifactId>kafka-schema-registry</artifactId>

<scope>test</scope>
</dependency>
<dependency>
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  <artifactId>kafka-schema-registry</artifactId>
  <type>test-jar</type>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.apache.kafka</groupId>
  <artifactId>connect-api</artifactId>
  <scope>provided</scope>
</dependency>
<dependency>
  <groupId>org.apache.kafka</groupId>
  <artifactId>kafka-clients</artifactId>
  <classifier>test</classifier>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.apache.kafka</groupId>
  <artifactId>kafka_${kafka.scala.version}</artifactId>
  <classifier>test</classifier>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.mockito</groupId>
  <artifactId>mockito-core</artifactId>

  <scope>test</scope>
</dependency>
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <scope>test</scope>
</dependency>

```

```

</dependencies>

<build>
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    <plugin>
      <groupId>com.github.os72</groupId>
      <artifactId>protoc-jar-maven-plugin</artifactId>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <version>2.6</version>
      <executions>
        <execution>
          <goals>
            <goal>test-jar</goal>
          </goals>
          <phase>test-compile</phase>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
</project>

```

Found in path(s):

```

* /opt/cola/permits/1366801624_1658170313.27049/0/kafka-protobuf-serializer-5-5-1-jar/META-INF/maven/io.confluent/kafka-protobuf-serializer/pom.xml

```

1.86 kafka-protobuf-provider 5.5.1

1.86.1 Available under license :

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```

<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/xsd/maven-4.0.0.xsd">

```

```

  <modelVersion>4.0.0</modelVersion>

```

```

  <parent>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-parent</artifactId>
    <version>5.5.1</version>
  </parent>

```

```

  <licenses>
    <license>

```

```
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</license>
<license>
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  <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
  <distribution>repo</distribution>
</license>
</licenses>
```

```
<artifactId>kafka-protobuf-provider</artifactId>
<packaging>jar</packaging>
<name>kafka-protobuf-provider</name>
```

```
<dependencies>
  <dependency>
    <groupId>com.squareup.wire</groupId>
    <artifactId>wire-schema</artifactId>
  </dependency>
  <dependency>
    <groupId>com.google.protobuf</groupId>
    <artifactId>protobuf-java</artifactId>
  </dependency>
  <dependency>
    <groupId>com.google.protobuf</groupId>
    <artifactId>protobuf-java-util</artifactId>
  </dependency>
  <dependency>
    <groupId>io.confluent</groupId>
    <artifactId>kafka-schema-registry-client</artifactId>
  </dependency>
  <dependency>
    <groupId>org.mockito</groupId>
    <artifactId>mockito-core</artifactId>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <scope>test</scope>
  </dependency>
</dependencies>
```

```
<build>
  <plugins>
    <plugin>
      <groupId>com.github.os72</groupId>
```

```
<artifactId>protoc-jar-maven-plugin</artifactId>
</plugin>
</plugins>
</build>
</project>
```

Found in path(s):

* /opt/cola/permits/1366801572_1658170533.3425114/0/kafka-protobuf-provider-5-5-1-jar/META-INF/maven/io.confluent/kafka-protobuf-provider/pom.xml

1.87 simpleclient-httpserver 0.15.0

1.87.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1367695492_1658239393.425837/0/simpleclient-httpserver-0-15-0-sources-1-jar/META-INF/maven/io.prometheus/simpleclient_httpserver/pom.xml

1.88 gson-fire 1.8.5

1.88.1 Available under license :

Apache-2.0

1.89 awaitility 4.2.0

1.89.1 Available under license :

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/reflect/FieldNameMatcherStrategy.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/reflect/exception/TooManyFieldsFoundException.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/ConditionEvaluationListener.java
*
/opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/ConditionAwaiter.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/CallableCondition.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/reflect/FieldAnnotationMatcherStrategy.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/FieldSupplierBuilder.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/reflect/FieldMatcherStrategy.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/reflect/FieldTypeMatcherStrategy.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/ConditionEvaluationLogger.java
*
/opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/HamcrestToStringFilter.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/ConditionFactory.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/Condition.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/ConditionSettings.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/AbstractHamcrestCondition.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/reflect/exception/FieldNotFoundException.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/CallableHamcrestCondition.java
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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/ConditionEvaluationResult.java

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jar/org/awaitility/core/Uninterruptibles.java

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/StartEvaluationEvent.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/DurationFactory.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/ForeverDuration.java
*
/opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/TimeoutEvent.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/Durations.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/TemporalDuration.java

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/reflect/AssignableToFieldTypeMatcherStrategy.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/reflect/FieldNameAndTypeMatcherStrategy.java

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/SameThreadExecutorService.java

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/Awaitility.java

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```
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/pollinterval/FixedPollInterval.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/pollinterval/PollInterval.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/ExceptionIgnorer.java
*
/opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/ConditionTimeoutException.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/pollinterval/IterativePollInterval.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/ConditionEvaluator.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/classpath/ClassPathResolver.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/EvaluatedCondition.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/pollinterval/FibonacciPollInterval.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/ThrowingRunnable.java
*
/opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/HamcrestExceptionIgnorer.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/PredicateExceptionIgnorer.java
* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-
jar/org/awaitility/core/DeadlockException.java
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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/ConditionEvaluationHandler.java

* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/AssertionCondition.java

* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/LambdaErrorMessageGenerator.java

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/TerminalFailureException.java

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/CheckedExceptionRethrower.java

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-jar/org/awaitility/core/EvaluationCleanup.java

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* /opt/cola/permits/1369642622_1658427576.413985/0/awaitility-4-2-0-sources-1-  
jar/org/awaitility/spi/Timeout.java
```

1.90 jakarta-annotation-api 2.1.1

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```
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/EventListener.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/EventListenerTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/ConnectionCoalescingTest.java
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/publicsuffix/PublicSuffixDatabase.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/publicsuffix/PublicSuffixListGenerator.java
```


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jar/jvmTest/okhttp3/internal/publicsuffix/PublicSuffixDatabaseTest.kt
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```
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/connection/RealConnection.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/connection/RealConnectionPool.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
```

```
jar/commonMain/okhttp3/Headers.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/nonJvmMain/okhttp3/Headers.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http/BridgeInterceptor.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/ConnectionPool.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/Connection.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/tls/OkHostnameVerifier.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/Headers.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/commonMain/okhttp3/internal/-HeadersCommon.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/connection/ConnectInterceptor.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/cache/CacheInterceptor.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/tls/CertificateChainCleaner.kt
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```

```
Found in path(s):
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/commonMain/okhttp3/internal/-InternalVersion.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/connection/ConnectPlan.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/connection/tlsHandshake.kt
```

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```
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/authenticator/JavaNetAuthenticatorTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/ws/MessageInflater.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/ws/MessageDeflater.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/CacheCorruptionTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/HttpGetTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/ws/MessageDeflaterInflaterTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/InsecureForHostTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/KotlinDeprecationErrorTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/ServerTruncatesRequestTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/graal/svm.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/osgi/OsgiTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/CallHandshakeTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/ws/WebSocketExtensions.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
```

jar/jvmMain/okhttp3/MultipartReader.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/MultipartReaderTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/OkHttpTest.kt
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jar/jvmMain/okhttp3/internal/http2/Settings.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/commonTest/okhttp3/HeadersTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/http/StatusLineTest.java
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/HeadersRequestTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/OkHttpClient.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/Dns.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/connection/RouteSelector.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/connection/RouteSelectorTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/http2/SettingsTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/HeadersJvmTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/HeadersChallengesTest.kt

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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/TlsVersion.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/TlsVersion.kt

*

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/ChannelSocketFactory.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/internal/-UtilCommon.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/internal/-HostnamesCommon.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/internal/-CacheControlCommon.kt

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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/http2/Huffman.kt
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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonTest/okhttp3/ResponseCommonTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/tls/BasicCertificateChainCleaner.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/http/RealInterceptorChain.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/cache2/RelayTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/Android10Platform.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-

```

jar/jvmMain/okhttp3/WebSocketListener.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http2/StreamResetException.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/platform/Jdk8WithJettyBootPlatformTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/tls/ClientAuthTest.java
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/WebSocket.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/cache2/Relay.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/SocketRecorder.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http/CallServerInterceptor.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/platform/AndroidPlatform.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/tls/TrustRootIndex.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/nonJvmTest/okhttp3/ResponseNonJvmTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/ws/RealWebSocket.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/cache2/FileOperator.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/CertificateChainCleanerTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http2/ConnectionShutdownException.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/ResponseBodyJvmTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/cache2/FileOperatorTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/nonJvmTest/okhttp3/ResponseBodyNonJvmTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/tls/CertificatePinnerChainValidationTest.java
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/platform/PlatformTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http/RetryAndFollowUpInterceptor.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/ResponseJvmTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/platform/Jdk9PlatformTest.java

```



```
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/tls/BasicTrustRootIndex.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/commonTest/okhttp3/ResponseBodyTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/platform/Jdk8WithJettyBootPlatform.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/ws/WebSocketRecorder.java
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```

Found in path(s):

```
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http/dates.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/http2/Http2ConnectionTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/io/FaultyFileSystem.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http2/Http2Reader.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http2/Http2Writer.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http2/Http2Stream.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/http2/Http2Connection.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmMain/okhttp3/internal/cache/DiskLruCache.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/jvmTest/okhttp3/internal/http2/MockHttp2Peer.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
```

jar/jvmTest/okhttp3/CacheTest.java

*

/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/cache/DiskLruCacheTest.kt

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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/ConscryptTest.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/ProtocolTest.java

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/proxy/NullProxySelector.kt

*

/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/CorrettoTest.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/DuplexTest.java

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/WholeOperationTimeoutTest.java

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/RecordingWebsocketListener.java

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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jsTest/okhttp3/TestCall.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jsMain/okhttp3/internal/-JsAsync.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/Call.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/AsyncDns.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jsTest/okhttp3/SuspendCallTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/internal/http/StatusLine.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jsTest/okhttp3/TestCallFactory.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-

jar/jvmMain/okhttp3/Call.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-

jar/commonMain/okhttp3/Response.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/-
CommonPlatform.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/-
NonJvmPlatform.kt

*

/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
jar/commonMain/okhttp3/Challenge.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/-
JvmPlatform.kt

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jar/jvmMain/okhttp3/internal/platform/Platform.kt

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- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/concurrent/TaskRunnerRealBackendTest.kt
- *
- /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/KotlinSourceModernTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/android/Android10SocketAdapter.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/CacheControl.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/android/DeferredSocketAdapter.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/concurrent/TaskRunnerTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/android/ConscryptSocketAdapter.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/android/StandardAndroidSocketAdapter.kt
- *
- /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/concurrent/TaskQueue.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/concurrent/TaskLoggerTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/HeadersKotlinTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/NativeImageTestsAccessors.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/OpenJSSEPlatform.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/OpenJSSETest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/concurrent/TaskRunner.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/RequestBodyTest.kt
- *
- /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/ws/WebSocketExtensionsTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/android/AndroidLog.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/RecordingExecutor.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/SessionReuseTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/CacheControl.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/connection/Exchange.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/internal.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/concurrent/TaskLogger.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/android/BouncyCastleSocketAdapter.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/HandshakeTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/concurrent/Task.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/JSSSTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/platform/android/AndroidSocketAdapterTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/android/AndroidSocketAdapter.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/android/SocketAdapter.kt
*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/BouncyCastleTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/CacheControl.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/PublicInternalApiTest.java
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/BouncyCastlePlatform.kt
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- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/CacheControlJvmTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/CertificatePinnerTest.java
- *
- /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/TlsVersion.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/http/CancelTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/cache/CacheRequest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/Interceptor.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/http/ThreadInterruptTest.java
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/internal/http/HttpMethod.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/http2/PushObserver.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/Challenge.kt
- *
- /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/ResponseBody.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/Callback.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/ConnectionSpec.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/Call.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/MultipartBodyTest.java
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/ws/WebSocketWriterTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/AddressTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/http/RealResponseBody.kt
- *
- /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/DoubleInetAddressDns.java

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/RequestBody.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonTest/okhttp3/CacheControlTest.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/OkHttpClientTest.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/RequestBody.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/SocksProxy.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/http2/FrameLogTest.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/ws/WebSocketProtocol.kt

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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/ws/RealWebSocketTest.java

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/RequestBody.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/platform/ConscryptPlatform.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/ws/WebSocketReader.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/Protocol.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/connection/RealCall.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/TestLogHandler.java

*

/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/ws/WebSocketHttpTest.java

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/ws/WebSocketReaderTest.kt

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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/CertificatePinner.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/FormBodyTest.java

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/FormBody.kt

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/SocksProxyTest.java

* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/MultipartBody.kt

*
/opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/Challenge.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/ws/WebSocketWriter.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/ResponseBody.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/http/HttpDateTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/CertificatePinnerKotlinTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/Credentials.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/OkHttp.kt

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- *
- /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/Handshake.kt
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- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/authenticator/JavaNetAuthenticator.kt
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- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/http2/BaseTestHandler.java
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- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/MediaType.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/http/RequestLine.kt
- *
- /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/http2/HpackTest.java
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/Request.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/http2/Http2Test.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/CallTest.kt
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- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/connection/RouteDatabase.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/http2/Hpack.kt
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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/Response.kt
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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/Request.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/http2/ErrorCode.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/nonJvmMain/okhttp3/MediaType.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/RecordedResponse.java
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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/internal/connection/ConnectionPoolTest.kt
* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/connection/SequentialExchangeFinder.kt
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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmMain/okhttp3/internal/cache/FaultHidingSink.kt
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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/CookieTest.kt
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- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/jvmTest/okhttp3/MediaTypeJvmTest.kt
- * /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-jar/commonMain/okhttp3/internal/-ResponseBodyCommon.kt
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* /opt/cola/permits/1446726099_1699494106.1640453/0/okhttp-5-0-0-alpha-10-sources-
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```

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"src/kotlin/collections/MapAccessors.kt", "src/kotlin/colle ctions/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/UArra ySorting.kt", "src/kotlin/comparisons/compareTo.kt", "src/kotlin/contracts/ContractBuilder.kt", "src/kotlin/coroutines/ ContinuationInterceptor.kt", "src/kotlin/coroutines/CoroutineContext.kt", "src/kotlin/coroutines/CoroutineContextImp l.kt", "src/kotlin/coroutines/intrinsics/Intrinsics.kt", "src/kotlin/experimental/bitwiseOperations.kt", "src/kotlin/experi mental/inferenceMarker.kt", "src/kotlin/internal/Annotations.kt", "src/kotlin/properties/Delegates.kt", "src/kotlin/prop erties/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/K Variance.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/Experimen talTime.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/Kotlin Version.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/k otlin/ULongRange.kt", "unsigned/src/kotlin/UMath.kt", "unsigned/src/kotlin/UNumbers.kt", "unsigned/src/kotlin/UPr ogressionUtil.kt", "unsigned/src/kotlin/UStrings.kt", "unsigned/src/kotlin/annotations/Unsigned.kt", "common/src/kotl in/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 *\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\nKotlin.isFloatArray = function (a) {\n return a instanceof Float32Array;\n}\n\nKotlin.isDoubleArray = function (a) {\n return a instanceof Float64Array;\n}\n\nKotlin.isLongArray = function (a) {\n return Array.isArray(a) && a.\$type\$ ===

```

\"LongArray\";
Kotlin.isArray = function (a) {
    return Array.isArray(a) &&
    !a.$type$;
};
Kotlin.isArrayish = function (a) {
    return Array.isArray(a) ||
    ArrayBuffer.isView(a);
};
Kotlin.arrayToString = function (a) {
    if (a === null) return \"null\";
    var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;
    return \"[\" +
    Array.prototype.map.call(a, function(e) {
        return toString(e);
    }).join(\", \") + \"]\";
};
Kotlin.arrayDeepToString =
function (arr) {
    return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);
};
Kotlin.arrayEquals =
function (a, b) {
    if (a === b) return true;
    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.
 * Use of this source code is governed 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;
}
var propertyRefClassMetadataCache = [
    { mutable: { value:
    null, implementedInterface: function () {
        return Kotlin.kotlin.reflect.KMutableProperty0;
    } } },
    { value: null, implementedInterface: function () {
        return Kotlin.kotlin.reflect.KProperty0;
    } } },
    { mutable: { value: null, implementedInterface: function () {
        return
        Kotlin.kotlin.reflect.KMutableProperty1;
    } } },
    { 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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Language contributors.
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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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license that can be found in the license/LICENSE.txt file.
 */
Kotlin.equals = function (obj1, obj2) {
    if (obj1

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== null) {\n    return obj2 == null;\n }\n\n if (obj2 == null) {\n    return false;\n }\n\n if (obj1 !== obj1)\n{\n    return obj2 !== obj2;\n }\n\n if (typeof obj1 === \"object\" && typeof obj1.equals === \"function\") {\n    return obj1.equals(obj2);\n }\n\n if (typeof obj1 === \"number\" && typeof obj2 === \"number\") {\n    return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2)\n }\n\n return obj1 ===\nobj2;\n};\n\nKotlin.hashCode = function (obj) {\n if (obj == null) {\n    return 0;\n }\n var objType = typeof\nobj;\n if (\"object\" === objType) {\n    return \"function\" === typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n }\n if\n(\"function\" === objType) {\n    return getObjectHashCode(obj);\n }\n if (\"number\" === objType) {\n    return Kotlin.numberHashCode(obj);\n }\n if (\"boolean\" === objType) {\n    return Number(obj)\n }\n\n var str = String(obj);\n return getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n if (o == null)\n{\n    return \"null\";\n }\n else if (Kotlin.isArrayish(o)) {\n    return \"[...]\";\n }\n else {\n    return\no.toString();\n }\n};\n\n/** @const *\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol\ntype once we are on ES6.\n** @const *\nvar OBJECT_HASH_CODE_PROPERTY_NAME =\n\"kotlinHashCodeValue\";\n\nfunction getObjectHashCode(obj) {\n if\n(! (OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n    var hash = (Math.random() * POW_2_32) | 0;\n //\nMake 32-bit signed integer.\n    Object.defineProperty(obj,\n    OBJECT_HASH_CODE_PROPERTY_NAME, { value: hash, enumerable: false });\n }\n return\nobj[OBJECT_HASH_CODE_PROPERTY_NAME];\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;\n // Keep\nit 32-bit.\n }\n return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by\nthe Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\n// Copyright 2009 The Closure\nLibrary Authors. All Rights Reserved.\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//\nhttp://www.apache.org/licenses/LICENSE-2.0\n *\n// Unless required by applicable law\nor agreed to in writing, software\n *\n// distributed under the License is distributed on an \"AS-IS\" BASIS,\n *\n//\nWITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n\n\n**\n *\n * Constructs a\n64-bit two's-complement integer, given its low and high 32-bit\n *\n * values as *signed* integers. See the from*\nfunctions below for more\n *\n * convenient ways of constructing Longs.\n *\n * The internal representation of a long is\nthe two given signed, 32-bit values.\n *\n * We use 32-bit pieces because these are the size of integers on which\n *\n * Javascript performs bit-operations. For operations like addition and\n *\n * multiplication, we split each number into\n16-bit pieces, which can easily be\n *\n * multiplied within Javascript's floating-point representation without overflow\n *\n * or change in sign.\n *\n * In the algorithms below, we frequently reduce the negative case to the\n *\n * positive case by negating the input(s) and then post-processing the result.\n *\n * Note that we must ALWAYS check\nspecially whether those values are MIN_VALUE\n *\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since\n2^63 cannot be represented as\n *\n * a positive number, it overflows back into a negative). Not handling this\n *\n * case\nwould often result in infinite recursion.\n\n *\n * @param {number} low The low (signed) 32 bits of the long.\n *\n * @param {number} high The high (signed) 32 bits of the long.\n *\n * @constructor\n *\n * @final\n *\n *\nKotlin.Long =\nfunction(low, high) {\n /**\n *\n * @type {number}\n *\n * @private\n *\n *\nthis.low_ = low | 0;\n // force into 32\nsigned bits.\n\n\n /**\n *\n * @type {number}\n *\n * @private\n *\n *\nthis.high_ = high | 0;\n // force into 32 signed\nbits.\n};\n\nKotlin.Long.$metadata$ = {\n kind: \"class\",\n simpleName: \"Long\",\n interfaces: []\n};\n\n\n//\nNOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the\n *\n// from*\nmethods on which\nthey depend.\n\n\n\n**\n *\n * A cache of the Long representations of small integer values.\n *\n * @type {!Object}\n *\n * @private\n\n *\n\nKotlin.Long.IntCache_ = {};\n\n\n**\n *\n * Returns a Long representing the given (32-bit) integer value.\n *\n * @param {number} value The 32-bit integer in question.\n *\n * @return {!Kotlin.Long} The corresponding Long\nvalue.\n\n *\n\nKotlin.Long.fromInt = function(value) {\n if (-128 <= value && value < 128) {\n    var cachedObj =\nKotlin.Long.IntCache_[value];\n if (cachedObj) {\n    return cachedObj;\n }\n }\n\n var obj = new

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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 * 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
*\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/**\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\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
*\n * @private\n *\nKotlin.Long.TWO_PWR_31_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\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_

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= Kotlin.Long.fromInt(1 << 24);\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/** @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/** @return {number} The 32-bit
hashCode of this value. *\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^
this.low_;\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
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 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; 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 * @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 * @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 * @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 * @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 * @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 *
@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

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= function(other) {\n return this.compare(other) >= 0;\n};\n\n/n/**\n * Compares this Long with the given one.\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 * @return {!Kotlin.Long} The negation of this value.
*\nKotlin.Long.prototype.negate = function() {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return
Kotlin.Long.MIN_VALUE;\n } else {\n return this.not().add(Kotlin.Long.ONE);\n
}\n};\n\n/n/**\n * Returns the sum of this and the given Long.\n * @param {Kotlin.Long} other Long to add to
this one.\n * @return {!Kotlin.Long} The sum of this and the given Long.\n */\nKotlin.Long.prototype.add =
function(other) {\n // Divide each number into 4 chunks of 16 bits, and then sum the chunks.\n\n var a48 =
this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_ >>> 16;\n var a00 = this.low_ &
0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n var b16 = other.low_ >>> 16;\n
var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00 += a00 + b00;\n c16 += c00
>>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 + b32;\n
c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &= 0xFFFF;\n return
Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n/n/**\n * Returns the difference of this and the
given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return {!Kotlin.Long} The
difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other) {\n return
this.add(other.negate());\n};\n\n/n/**\n * Returns the product of this and the given long.\n * @param {Kotlin.Long}
other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n
*/\nKotlin.Long.prototype.multiply = function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n } else
if (other.isZero()) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return this.isOdd() ? Kotlin.Long.MIN_VALUE :
Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n if (other.isNegative()) {\n return
this.negate().multiply(other.negate());\n } else {\n return this.negate().multiply(other);\n
}\n } else if (other.isNegative()) {\n return this.multiply(other.negate()).negate();\n }\n\n // If both longs are
small, use float multiplication\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n
other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n return Kotlin.Long.fromNumber(this.toNumber() *
other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n // We can
skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 =
this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ &
0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00
= 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 * b00;\n c32 += c16 >>> 16;\n
c16 &= 0xFFFF;\n c16 += a00 * b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 +=
a32 * b00;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48 += c32 >>> 16;\n c32 &=
0xFFFF;\n c32 += a00 * b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 * b00 + a32 * b16 + a16 *
b32 + a00 * b48;\n c48 &= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) |
c32);\n};\n\n/n/**\n * Returns this Long divided by the given one.\n * @param {Kotlin.Long} other Long by which
to divide.\n * @return {!Kotlin.Long} This Long divided by the given one.\n */\nKotlin.Long.prototype.div =
function(other) {\n if (other.isZero()) {\n throw Error('division by zero');\n } else if (this.isZero()) {\n return
Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n if
(other.equalsLong(Kotlin.Long.ONE) ||\n other.equalsLong(Kotlin.Long.NEG_ONE)) {\n return
Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE == MIN_VALUE\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ONE;\n }
}

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    } 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();
    }
    // Repeat the following until the remainder is less than other: find a
    // floating-point that approximates remainder / other *from below*, add this
    // into the result, and subtract it from the remainder. It is critical that
    // the approximate value is less than or equal to the real value so that the
    // remainder never becomes negative.
    var res = Kotlin.Long.ZERO;
    var rem = this;
    while (rem.greaterThanOrEqual(other)) {
        // Approximate the result of division. This may be a little greater or
        // smaller than the actual value.
        var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));
        // We will tweak the approximate result by changing it in the 48-th digit or
        // the smallest non-fractional digit, whichever is larger.
        var log2 = Math.ceil(Math.log(approx) / Math.LN2);
        var delta = (log2 <= 48) ? 1 : Math.pow(2, log2 - 48);
        // Decrease the approximation until it is smaller than the remainder. Note
        // that if it is too large, the product overflows and is negative.
        var approxRes = Kotlin.Long.fromNumber(approx);
        var approxRem = approxRes.multiply(other);
        while (approxRem.isNegative() || approxRem.greaterThan(rem)) {
            approx -= delta;
            approxRes = Kotlin.Long.fromNumber(approx);
            approxRem = approxRes.multiply(other);
        }
        // We know the answer can't be zero... and actually, zero would cause
        // infinite recursion since we would make no progress.
        if (approxRes.isZero()) {
            approxRes = Kotlin.Long.ONE;
        }
        res = res.add(approxRes);
        rem = rem.subtract(approxRem);
    }
    return res;
}

/**
 * Returns this Long modulo the given one.
 * @param {Kotlin.Long} other Long by which to mod.
 * @return {!Kotlin.Long} This Long modulo the given one.
 */
Kotlin.Long.prototype.modulo = function(other) {
    return this.subtract(this.div(other).multiply(other));
};

/**
 * @return {!Kotlin.Long} The bitwise-NOT of this value.
 */
Kotlin.Long.prototype.not = function() {
    return Kotlin.Long.fromBits(~this.low_, ~this.high_);
};

/**
 * Returns the bitwise-AND of this Long and the given one.
 * @param {Kotlin.Long} other The Long with which to AND.
 * @return {!Kotlin.Long} The bitwise-AND of this and the other.
 */
Kotlin.Long.prototype.and = function(other) {
    return Kotlin.Long.fromBits(this.low_ & other.low_, this.high_ & other.high_);
};

/**
 * Returns the bitwise-OR of this Long and the given one.
 * @param {Kotlin.Long} other The Long with which to OR.
 * @return {!Kotlin.Long} The bitwise-OR of this and the other.
 */
Kotlin.Long.prototype.or = function(other) {
    return Kotlin.Long.fromBits(this.low_ | other.low_, this.high_ | other.high_);
};

/**
 * Returns the bitwise-XOR of this Long and the given one.
 * @param {Kotlin.Long} other The Long with which to XOR.
 * @return {!Kotlin.Long} The bitwise-XOR of this and the other.
 */
Kotlin.Long.prototype.xor = function(other) {
    return Kotlin.Long.fromBits(this.low_ ^ other.low_, this.high_ ^ other.high_);
};

/**
 * Returns this Long with bits shifted to the left by the given amount.
 * @param {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the left by the given amount.
 */
Kotlin.Long.prototype.shiftLeft = function(numBits) {
    numBits &= 63;
    if (numBits == 0) {
        return this;
    } else {
        var low = this.low_;
        if (numBits < 32) {
            var high = this.high_;
            return Kotlin.Long.fromBits(low << numBits, (high << numBits) | (low >>> (32 - numBits)));
        } else {
            return Kotlin.Long.fromBits(0, low << (numBits - 32));
        }
    }
};

/**
 * Returns this Long with bits shifted to the right by the given amount.
 * @param {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the right by the given amount.
 */
Kotlin.Long.prototype.shiftRight = function(numBits) {
    numBits &= 63;
    if (numBits

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    == 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/**\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        } 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\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;\n\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/*\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 * @param {string} id\n * @param {Object} declaration\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\n\nfunction throwMarkerError() {\n    throw new Error(\n        \"This marker function should never be called. \"+\n        \"Looks like compiler did not eliminate it properly. \"+\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/*\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\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    if (a === b) {\n        if (a !== 0) return 0;\n        var ia = 1 / a;\n    }\n}

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return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);
}

return a !== a ? (b !== b ? 0 : 1) : -1;
}

Kotlin.charInc = function (value) {
return Kotlin.toChar(value+1);
};

Kotlin.charDec = function (value) {
return Kotlin.toChar(value-1);
};

Kotlin.imul = Math.imul || imul;

Kotlin.imulEmulated = imul;

function imul(a, b) {
return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;
}

function() {
var buf = new ArrayBuffer(8);
var bufFloat64 = new Float64Array(buf);
var bufFloat32 = new Float32Array(buf);
var bufInt32 = new Int32Array(buf);
var lowIndex = 0;
var highIndex = 1;

bufFloat64[0] = -1; // bff00000_00000000
if (bufInt32[lowIndex] !== 0) {
lowIndex = 1;
highIndex = 0;
}

Kotlin.doubleToBits = function (value) {
return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);
};

Kotlin.doubleToRawBits = function (value) {
bufFloat64[0] = value;
return Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);
};

Kotlin.doubleFromBits = function (value) {
bufInt32[lowIndex] = value.low_;
bufInt32[highIndex] = value.high_;
return bufFloat64[0];
};

Kotlin.floatToBits = function (value) {
return Kotlin.floatToRawBits(isNaN(value) ? NaN : value);
};

Kotlin.floatToRawBits = function (value) {
bufFloat32[0] = value;
return bufInt32[0];
};

Kotlin.floatFromBits = function (value) {
bufInt32[0] = value;
return bufFloat32[0];
};

// returns zero value for number with positive sign bit
and non-zero value for number with negative sign bit.
Kotlin.doubleSignBit = function (value) {
bufFloat64[0] = value;
return bufInt32[highIndex] & 0x80000000;
};

Kotlin.numberHashCode = function (obj) {
if ((obj | 0) === obj) {
return obj | 0;
}
else {
bufFloat64[0] = obj;
return (bufInt32[highIndex] * 31 | 0) + bufInt32[lowIndex] | 0;
}
}

Kotlin.ensureNotNull = function (x) {
return x != null ? x : Kotlin.throwNPE();
};

"/**
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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.
 */
nif (typeof String.prototype.startsWith === "undefined") {
Object.defineProperty(String.prototype, "startsWith", {
value: function (searchString, position) {
position = position || 0;
return this.lastIndexOf(searchString, position) === position;
}
});

nif (typeof String.prototype.endsWith === "undefined") {
Object.defineProperty(String.prototype, "endsWith", {
value: function (searchString, position) {
var subjectString = this.toString();
if (position === undefined || position > subjectString.length) {
position = subjectString.length;
}
position -= searchString.length;
var lastIndex = subjectString.indexOf(searchString, position);
return lastIndex !== -1 && lastIndex === position;
}
});

// ES6 Math polyfills
nif (typeof Math.sign === "undefined") {
Math.sign = function (x) {
x = +x; // convert to a number
if (x === 0 || isNaN(x)) {
return Number(x);
}
return x > 0 ? 1 : -1;
};

nif (typeof Math.trunc === "undefined") {
Math.trunc = function (x) {
if (isNaN(x)) {
return NaN;
}
if (x > 0) {
return Math.floor(x);
}
return Math.ceil(x);
};

}

function() {
var epsilon = 2.220446049250313E-16;
var taylor_2_bound = Math.sqrt(epsilon);
var taylor_n_bound = Math.sqrt(taylor_2_bound);

var upper_taylor_2_bound = 1/taylor_2_bound;
var upper_taylor_n_bound = 1/taylor_n_bound;

if (typeof Math.sinh === "undefined") {
Math.sinh = function (x) {
if (Math.abs(x) < taylor_n_bound) {
var result = x;
if (Math.abs(x) > taylor_2_bound) {
result += (x * x * x) / 6;
}
return result;
}
else {
var y = Math.exp(x);
var y1 = 1 / y;
if (!isFinite(y)) return Math.exp(x - Math.LN2);
if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);
return (y - y1) / 2;
}
};

}

if (typeof Math.cosh === "undefined") {
Math.cosh = function (x) {
var y = Math.exp(x);
var y1 = 1 / y;
if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);
return (y + y1) / 2;
};

}

if (typeof Math.tanh === "undefined") {
Math.tanh = function (x) {
if (Math.abs(x) < taylor_n_bound) {
var result = x;
if (Math.abs(x) > taylor_2_bound) {
result -= (x * x * x) / 3;
}
return result;
}
else {
var a = Math.exp(+x), b = Math.exp(-x);
return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);
}
};
}
}

```

```

}\n    };\n    }\n\n    // Inverse hyperbolic function implementations derived from boost special math functions,\n
// Copyright Eric Ford & Hubert Holin 2001.\n\n    if (typeof Math.asinh === "undefined") {\n        var asinh =\n
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
approximation by laurent series in 1/x at 0+ order from -1 to 0\n                                    return Math.log(x) + Math.LN2;\n
}\n                                else\n                                    {\n                                    // approximation by laurent series in 1/x at 0+ order\n
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 <= -\n
taylor_n_bound)\n                            {\n                                return -asinh(-x);\n                            }\n                        else\n                            {\n                                //\n
approximation by taylor series in x at 0 up to order 2\n                                    var result = x;\n                                    if (Math.abs(x) >=\n
taylor_2_bound)\n                                        {\n                                            var x3 = x * x * x;\n                                            // approximation by taylor series in x at\n
0 up to order 4\n                                                result\n
- = x3 / 6;\n                                            }\n                                        return result;\n                                    }\n                                }\n                            };\n\n
Math.asinh = asinh;\n    }\n\n    if (typeof\n
Math.acosh === "undefined") {\n        Math.acosh = function(x) {\n            if (x < 1)\n                {\n                    return\n
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\n
Math.log(x) + Math.LN2;\n                    }\n                }\n            else\n                {\n                    return Math.log(x + Math.sqrt(x * x * x - 1));\n                }\n            }\n            }\n            else\n                {\n                    var y = Math.sqrt(x - 1);\n                    //\n
approximation by taylor series in y at 0 up to order 2\n                            var result = y;\n                            if (y >=\n
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    }\n\n    if (typeof Math.atanh === "undefined")\n
{\n        Math.atanh = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var result = x;\n            }\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\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\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\n    if (typeof Math.hypot === "undefined") {\n        Math.hypot = function() {\n            var y = 0;\n            var length =\n
arguments.length;\n            for (var i = 0; i < length; i++) {\n                if (arguments[i] === Infinity || arguments[i] ===\n
-Infinity) {\n                    return Infinity;\n                }\n                y += arguments[i] * arguments[i];\n            }\n            return\n
Math.sqrt(y);\n        };\n    }\n\n    if (typeof Math.log10 === "undefined") {\n        Math.log10 = function(x) {\n            return Math.log(x) * Math.LOG10E;\n        };\n    }\n\n    if (typeof Math.log2 === "undefined") {\n        Math.log2 =\n
function(x) {\n            return Math.log(x) * Math.LOG2E;\n        };\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\n
=== 0) {\n                    return 32;\n                }\n                return 31 - (log(asUInt) / LN2 | 0) | 0; // the "| 0" acts like\n
math.floor\n            };\n        })(Math.log, Math.LN2);\n    }\n\n    // For HtmlUnit and PhantomJs\n    if (typeof\n
ArrayBuffer.isView === "undefined") {\n        ArrayBuffer.isView = function(a) {\n            return a != null &&\n
a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n        };\n    }\n\n    if (typeof\n
Array.prototype.fill === "undefined") {\n        // Polyfill from https://developer.mozilla.org/en-\n
US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n        Object.defineProperty(Array.prototype,\n
'fill', {\n            value: function (value) {\n                // Steps 1-2.\n                if (this == null) {\n                    throw new\n
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

```



```

(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 * @param {*} object\n * @param
{Function|Object} klass\n * @returns {Boolean}\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 instanceof
Object;\n            }\n        }\n    }\n\n    if (object == null || klass == null || (typeof object !== 'object' && typeof object !==
'function')) {\n        return false;\n    }\n\n    if (typeof klass === \"function\" && object instanceof klass) {\n
return true;\n    }\n\n    var proto = Object.getPrototypeOf(klass);\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 === klass;\n        }\n    }\n\n    var klassMetadata = klass.$metadata$;\n\n    // In WebKit
(JavaScriptCore) for some interfaces from DOM typeof returns \"object\", nevertheless they can be used in RHS of
instanceof\n    if (klassMetadata == null) {\n        return object instanceof klass;\n    }\n\n    if (klassMetadata.kind
=== Kotlin.Kind.INTERFACE && object.constructor != null) {\n        return
isInheritanceFromInterface(object.constructor, klass);\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\nnexternal internal fun <T> Array(size: Int):
Array<T>\n\n@JsName(\"newArray\")\nfun <T> newArray(size: Int, initialValue: T) = fillArrayVal(Array<T>(size),
initialValue)\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

```

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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\")\n\ninline fun longArrayWithFun(size:
Int, init: (Int) -> Long): Array<Long> = fillArrayFun(longArray(size, false), init)\n\nprivate fun <T>
fillArrayVal(array: Array<T>, initialValue: T): Array<T> {\n for (i in 0..array.size - 1) {\n array[i] = initialValue\n
}\n return array\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() = _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\")(this)\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
@JsName("MAX_VALUE")\n public const val MAX_VALUE: Char = "\uFFFF"\n
@JsName("MIN_HIGH_SURROGATE")\n public const val MIN_HIGH_SURROGATE: Char = "\uD800"\n
@JsName("MAX_HIGH_SURROGATE")\n public const val MAX_HIGH_SURROGATE: Char =
"\uDBFF"\n
@JsName("MIN_LOW_SURROGATE")\n public const val MIN_LOW_SURROGATE: Char =
"\uDC00"\n
@JsName("MAX_LOW_SURROGATE")\n public const val MAX_LOW_SURROGATE: Char
= "\uDFFF"\n
@JsName("MIN_SURROGATE")\n public const val MIN_SURROGATE: Char =
MIN_HIGH_SURROGATE\n
@JsName("MAX_SURROGATE")\n public const val MAX_SURROGATE:
Char = MAX_LOW_SURROGATE\n
@JsName("SIZE_BYTES")\n const val SIZE_BYTES = 2\n
@JsName("SIZE_BITS")\n const
val SIZE_BITS = 16\n
internal object StringCompanionObject {}
internal object
BooleanCompanionObject {}
"/*\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("ArraysKt")\n
package
kotlin.collections\n
/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n
import kotlin.random.*
import
kotlin.ranges.contains\n
import kotlin.ranges.reversed\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\n
public inline operator fun <T> Array<out T>.component1(): T
{\n return get(0)\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\n
public inline operator fun ByteArray.component1(): Byte {\n return
get(0)\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\n
public inline operator fun ShortArray.component1(): Short {\n return
get(0)\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\n
public inline operator fun IntArray.component1(): Int {\n return
get(0)\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\n
public inline operator fun LongArray.component1(): Long {\n
return get(0)\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\n
public inline operator fun FloatArray.component1(): Float {\n return
get(0)\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\n
public inline operator fun DoubleArray.component1(): Double {\n return
get(0)\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\n
public inline operator
fun BooleanArray.component1(): Boolean {\n return get(0)\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\n
public inline operator fun CharArray.component1():
Char {\n return get(0)\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 <T> Array<out T>.component2(): T {\n 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 where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun ByteArray.component2(): Byte {
        return get(1)
    }
    
```

`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 where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun ShortArray.component2(): Short {
        return get(1)
    }
    
```

`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 where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun IntArray.component2(): Int {
        return get(1)
    }
    
```

`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 where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun LongArray.component2(): Long {
        return get(1)
    }
    
```

`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 where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun FloatArray.component2(): Float {
        return get(1)
    }
    
```

`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 where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun DoubleArray.component2(): Double {
        return get(1)
    }
    
```

`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 where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun BooleanArray.component2(): Boolean {
        return get(1)
    }
    
```

`get(1)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun CharArray.component2(): Char {
        return get(1)
    }
    
```

`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun <T> Array<out T>.component3(): T {
        return get(2)
    }
    
```

`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun ByteArray.component3(): Byte {
        return get(2)
    }
    
```

`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun ShortArray.component3(): Short {
        return get(2)
    }
    
```

`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun IntArray.component3(): Int {
        return get(2)
    }
    
```

`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun LongArray.component3(): Long {
        return get(2)
    }
    
```

`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun FloatArray.component3(): Float {
        return get(2)
    }
    
```

`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun DoubleArray.component3(): Double {
        return get(2)
    }
    
```

`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

```

    @kotlin.internal.InlineOnly
    public inline operator fun BooleanArray.component3(): Boolean {
        return get(2)
    }
    
```


`get(2)` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`CharArray.component3(): Char` Returns 3rd *element* from the array. If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`CharArray.component4(): Char` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`T.component4(): T` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`ByteArray.component4(): Byte` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`ShortArray.component4(): Short` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`IntArray.component4(): Int` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`LongArray.component4(): Long` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`FloatArray.component4(): Float` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`DoubleArray.component4(): Double` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`BooleanArray.component4(): Boolean` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`CharArray.component4(): Char` Returns 4th *element* from the array. If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`CharArray.component5(): Char` Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`<T> Array<out T>.component5(): T` Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`ByteArray.component5(): Byte` Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`ShortArray.component5(): Short` Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`IntArray.component5(): Int` Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`LongArray.component5(): Long` Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`FloatArray.component5(): Float` Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`get(4)` Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`in Kotlin/JS` where the behavior is unspecified.

`@kotlin.internal.InlineOnly` public inline operator fun `DoubleArray.component5(): Double` {`n` return `get(4)`} Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`@kotlin.internal.InlineOnly` public inline operator fun `BooleanArray.component5(): Boolean` {`n` return `get(4)`} Returns 5th *element* from the array. If the size of this array is less than 5, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS where the behavior is unspecified.

`@kotlin.internal.InlineOnly` public inline operator fun `CharArray.component5(): Char` {`n` return `get(4)`} Returns `true` if [element] is found in the array.

`@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` {`n` return `indexOf(element) >= 0`} Returns `true` if [element] is found in the array.

`ShortArray.contains(element: Short): Boolean` {`n` return `indexOf(element) >= 0`} Returns `true` if [element] is found in the array.

`IntArray.contains(element: Int): Boolean` {`n` return `indexOf(element) >= 0`} Returns `true` if [element] is found in the array.

`LongArray.contains(element: Long): Boolean` {`n` return `indexOf(element) >= 0`} 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.", ReplaceWith("any { it == element }"))`

`@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")`

`@Suppress("DEPRECATION_ERROR")` public operator fun `FloatArray.contains(element: Float): Boolean` {`n` return `indexOf(element) >= 0`} 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.", ReplaceWith("any { it == element }"))`

`@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")`

`@Suppress("DEPRECATION_ERROR")` public operator fun `DoubleArray.contains(element: Double): Boolean` {`n` return `indexOf(element) >= 0`} Returns `true` if [element] is found in the array.

`BooleanArray.contains(element: Boolean): Boolean` {`n` return `indexOf(element) >= 0`} Returns `true` if [element] is found in the array.

`CharArray.contains(element: Char): Boolean` {`n` return `indexOf(element) >= 0`} Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array.

`@sample samples.collections.Collections.Elements.elementAt`

`<T> Array<out T>.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.

`@sample samples.collections.Collections.Elements.elementAt`

`public expect fun ByteArray.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.

`@sample samples.collections.Collections.Elements.elementAt`

`public expect fun ShortArray.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.

`@sample samples.collections.Collections.Elements.elementAt`

`public expect fun IntArray.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.

`@sample samples.collections.Collections.Elements.elementAt`

`public expect fun LongArray.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.

`@sample samples.collections.Collections.Elements.elementAt`

```

expect fun FloatArray.elementAt(index: Int): Float\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 expect fun DoubleArray.elementAt(index: Int): Double\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 expect fun BooleanArray.elementAt(index: Int):
Boolean\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 expect fun CharArray.elementAt(index: Int): Char\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
<T> Array<out 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 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 {\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@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrElse(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 * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.elementAtOrElse(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 * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): 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 * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrElse(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 * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrElse(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 * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.elementAtOrElse(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 *
@sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.elementAtOrElse(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 * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

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

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empty.}\n    return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\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 */\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 */\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 */\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 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@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

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NoSuchElementException("No element of the array was transformed to a non-null value.")\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@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 */\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 */\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 */\npublic fun 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

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

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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 * @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 */\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    return -1\n}\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element:
Byte): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n
}\n    return -1\n}\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/**\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/**\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/**\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("\\index\\OfFirst { it == element
}\\")\n)\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/**\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("\\index\\OfFirst { it ==
element }\\")\n)\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/**\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    return -1\n}\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    return -
1\n}\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/**\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    return -1\n}\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    return -1\n}\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
IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index]))
{\n        return index\n    }\n    return -1\n}\n}\n\n/**\n *

```

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

*public inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

```

* Returns the last element.

```

* @throws NoSuchElementException if the array is empty.
* @sample samples.collections.Collections.Elements.last
*public fun <T> Array<out T>.last(): T {
    if (isEmpty()) {
        throw NoSuchElementException("Array is empty.")
    }
    return this[lastIndex]
}

```

* Returns the last element.

```

* @throws NoSuchElementException if the array is empty.
* @sample samples.collections.Collections.Elements.last
*public fun ByteArray.last(): Byte {
    if (isEmpty()) {

```

```

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(): 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.last\n */\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.last\n */\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.last\n */\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.last\n */\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.last\n */\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.last\n */\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 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 ByteArray.last(predicate: (Byte) -> Boolean):
Byte {\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 ShortArray.last(predicate:
(Short) -> Boolean): Short {\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 IntArray.last(predicate: (Int) -> Boolean): Int
{\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 LongArray.last(predicate:
(Long) -> Boolean): Long {\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 FloatArray.last(predicate: (Float) -> Boolean):
Float {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element))
return element\n }\n throw NoSuchElementException("\nArray contains no element matching the
predicate.\n")\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 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("\nArray contains no element matching the predicate.\n")\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("\nArray contains no element
matching the predicate.\n")\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("\nArray contains no element matching the predicate.\n")\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 }\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
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("\nThe 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("\nindexOfLast { it == element
}"))\n}\n\n@DeprecatedSinceKotlin(warningSince = "\n1.4", errorSince = "\n1.6")\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("\nThe 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("\nindexOfLast { it == element
}"))\n}\n\n@DeprecatedSinceKotlin(warningSince = "\n1.4", errorSince = "\n1.6")\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` 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.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun
BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\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 CharArray.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 element from this array.\n
* \n * @throws NoSuchElementException if this array is empty.\n
*/\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.random(): T {\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.random(): Byte {\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.random(): Short {\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.random(): Long {\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.random(): Double {\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.random(): Char {\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\n@SinceKotlin("1.3")\npublic fun <T> Array<out T>.random(random: Random): T {\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\n@SinceKotlin("1.3")\npublic fun ByteArray.random(random: Random): Byte {\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\n@SinceKotlin("1.3")\npublic fun ShortArray.random(random: Random): Short {\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 IntArray.random(random:
Random): Int {\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 LongArray.random(random: Random): Long {\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 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

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic 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*\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 */\n*\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*\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*\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*\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*\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*\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*\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*\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 */\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 */\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 */\n*\npublic fun ShortArray.single(): Short {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array

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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/**\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}\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 FloatArray.single(): Float {\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/**\n * Returns the single element, or throws an exception if the array is empty or has more than one
element.\n */\npublic fun DoubleArray.single(): Double {\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/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single():
Boolean {\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/**\n *
Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n
public fun CharArray.single(): Char {\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/**\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> Array<out 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("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}\n\n@Suppress("UNCHECKED_CAST")\n
return single as T\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 ByteArray.single(predicate: (Byte) ->
Boolean): Byte {\n    var single: Byte? = 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}\n\n@Suppress("UNCHECKED_CAST")\n
return single as Byte\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 ShortArray.single(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) 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}\n\n@Suppress("UNCHECKED_CAST")\n
return single as Short\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 IntArray.single(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) 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}\n\n@Suppress("UNCHECKED_CAST")\n
return single as Int\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 */\n

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*^/npublic 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
}

* Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.

*^/npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {
    var
    single: Float? = 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 Float
}

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.

*^/npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {
    var
    single: Double? = 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 Double
}

* Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.

*^/npublic
inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {
    var single: Boolean? = 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 Boolean
}

* Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.

*^/npublic
inline fun CharArray.single(predicate: (Char) -> Boolean): Char {
    var single: Char? = 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 Char
}

* Returns single
element, or `null` if the array is empty or has more than one element.

*^/npublic fun <T> Array<out
T>.singleOrNull(): T? {
    return if (size == 1) this[0] else null
}

* Returns single element, or `null` if
the array is empty or has more than one element.

*^/npublic fun ByteArray.singleOrNull(): Byte? {
    return if
    (size == 1) this[0] else null
}

* Returns single element, or `null` if the array is empty or has
more than one element.

*^/npublic fun ShortArray.singleOrNull(): Short? {
    return if (size == 1) this[0] else
    null
}

* Returns single element, or `null` if the array is empty or has more than one element.

*^/npublic
fun IntArray.singleOrNull(): Int? {
    return if (size == 1) this[0] else null
}

* Returns single element, or
`null` if the array is empty or has more than one element.

*^/npublic fun LongArray.singleOrNull(): Long? {
    return if (size == 1) this[0] else null
}

* Returns single element, or `null` if the array is empty or has more
than one element.

*^/npublic fun FloatArray.singleOrNull(): Float? {
    return if (size == 1) this[0] else
    null
}

* Returns single element, or `null` if the array is empty or has more than one element.

*^/npublic
fun DoubleArray.singleOrNull(): Double? {
    return if (size == 1) this[0] else null
}

* Returns single
element, or `null` if the array is empty or has more than one
element.

*^/npublic fun BooleanArray.singleOrNull(): Boolean? {
    return if (size == 1) this[0] else
    null
}

* Returns single element, or `null` if the array is empty or has more than one element.

*^/npublic
fun CharArray.singleOrNull(): Char? {
    return if (size == 1) this[0] else null
}

* Returns the single
element matching the given [predicate], or `null` if element was not found or more than one element was found.

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*public inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*public inline fun ByteArray.singleOrNull(predicate:
(Byte) -> Boolean): Byte? {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*public inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {
    var single: Short? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*public inline fun IntArray.singleOrNull(predicate:
(Int) -> Boolean): Int? {
    var single: Int? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*public inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {
    var single: Long? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*public inline fun FloatArray.singleOrNull(predicate:
(Float) -> Boolean): Float? {
    var single: Float? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*public inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {
    var single: Double? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*public inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    var single: Boolean? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.

*public inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
    }
    if (!found) return null
    return single
}

Returns a list containing all elements except first [n] elements.

@throws
IllegalArgumentEception if
[n] is negative.

@sample
samples.collections.Collections.Transformations.drop

*public fun <T>
Array<out T>.drop(n: Int): List<T> {
    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
IllegalArgumentEception if [n] is negative.

@sample
samples.collections.Collections.Transformations.drop

*public fun ByteArray.drop(n: Int): List<Byte> {
    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

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IllegalArgumentException if [n] is negative.\n * \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
} \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 *^npublic fun IntArray.drop(n: Int): List<Int> {\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 *^npublic fun LongArray.drop(n: Int): List<Long> {\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 *^npublic fun FloatArray.drop(n: Int): List<Float> {\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 *^npublic fun DoubleArray.drop(n: Int): List<Double> {\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 *^npublic fun BooleanArray.drop(n: Int): List<Boolean>
{\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 *^npublic fun
CharArray.drop(n: Int): List<Char> {\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 *^npublic fun <T> Array<out 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 * 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 ByteArray.dropLast(n: Int): List<Byte> {\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 ShortArray.dropLast(n: Int): List<Short> {\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 IntArray.dropLast(n: Int): List<Int> {\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 LongArray.dropLast(n: Int):
List<Long> {\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\npublic fun FloatArray.dropLast(n: Int): List<Float> {\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\npublic fun DoubleArray.dropLast(n:
Int): List<Double> {\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\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 * \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 * \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 * \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 * \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 * \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 * \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 * \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 * \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 * \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 * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n\n\n public 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\n\n\n public inline fun <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\n\n\n public 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 *
\n * @sample samples.collections.Collections.Transformations.drop\n\n\n\n public 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\n\n\n public 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\n\n\n public 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\n\n\n public 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\n\n\n public 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\n\n\n public
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\n\n\n public 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 *

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\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
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
*/\npublic 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 * \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 * @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 * @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 * @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 * @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 * \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 * @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 * \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 * @param [predicate] function that takes the index of an element and the element itself\n * and

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returns the result of predicate evaluation on the element.

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\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 */\n
public 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 */\npublic 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

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*public inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination:
C, predicate: (index: Int, Float) -> Boolean): C {
    forIndexed { 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 {
    forIndexed { 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 {
    forIndexed { 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 {
    forIndexed { 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 {
    for (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

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containing all elements not matching the given [predicate].\n * \n * @sample
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 fun DoubleArray.slice(indices: IntRange):

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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++] = this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array

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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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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 * 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
*/\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
*/\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
*/\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
*/\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
*/\n\npublic fun DoubleArray.take(n: Int): List<Double> {\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<Double>(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\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
*/\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
*/\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
*/\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)\nlist.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\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 */\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 */\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)\nlist.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\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)\nlist.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\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 */\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 */\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)\nlist.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\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    }\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\npublic inline fun ByteArray.takeLastWhile(predicate:

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(Byte) -> Boolean): List<Byte> {\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\n satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\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 last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n */\n\npublic inline fun IntArray.takeLastWhile(predicate: (Int)\n -> Boolean): List<Int> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return\n drop(index + 1)\n    }\n  }\n  return\n 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\npublic inline fun LongArray.takeLastWhile(predicate:\n (Long) -> Boolean): List<Long> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return\n drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements\n satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n\npublic inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {\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 last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n */\n\npublic inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\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 last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n */\n\npublic inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\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 last elements satisfying the given [predicate].\n * \n * @sample\n samples.collections.Collections.Transformations.take\n */\n\npublic inline fun CharArray.takeLastWhile(predicate:\n (Char) -> Boolean): List<Char> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n      return\n drop(index + 1)\n    }\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing first elements\n satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n\npublic inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n  val list = ArrayList<T>()\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 */\n\npublic inline fun ByteArray.takeWhile(predicate: (Byte)\n -> Boolean): List<Byte> {\n  val list = ArrayList<Byte>()\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\n given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n\npublic inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n  val list =\n ArrayList<Short>()\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 */\n\npublic inline fun IntArray.takeWhile(predicate: (Int) ->\n Boolean): List<Int> {\n  val list = ArrayList<Int>()\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\n given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n\npublic inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n  val list = ArrayList<Long>()\n  for (item\n in this) {\n    if\n (!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\npublic inline fun FloatArray.takeWhile(predicate:

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(Float) -> Boolean): List<Float> {\n    val list = ArrayList<Float>()\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 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 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
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 * \n * @param fromIndex the start of the range (inclusive) to reverse.\n
*/\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
*/\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\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 =

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(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 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 * \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\n * 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

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than [toIndex].\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 (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@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
    (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@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
    (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 *\npublic fun <T> Array<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
*\npublic fun ByteArray.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
*\npublic fun ShortArray.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
*\npublic fun IntArray.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 *\npublic fun LongArray.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 *\npublic fun FloatArray.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
*\npublic fun DoubleArray.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
*\npublic fun BooleanArray.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
*\npublic fun CharArray.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 *\npublic fun <T> Array<T>.reversedArray(): Array<T> {\n    if
    (isEmpty()) return this\n    val result = 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 *\npublic fun ByteArray.reversedArray(): ByteArray {\n    if (isEmpty()) return this\n
    val result = ByteArray(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 *\npublic fun
    ShortArray.reversedArray(): ShortArray {\n    if (isEmpty()) return this\n    val result = ShortArray(size)\n    val
    lastIndex = lastIndexOf\n    for (i in 0..lastIndex)\n

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    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 IntArray.reversedArray(): IntArray {\n    if (isEmpty()) return this\n    val result =
IntArray(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 order.\n */\npublic fun
LongArray.reversedArray(): LongArray {\n    if (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 order.\n */\npublic fun FloatArray.reversedArray():
FloatArray {\n    if (isEmpty()) return this\n    val result = FloatArray(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 order.\n */\npublic fun
DoubleArray.reversedArray(): DoubleArray {\n    if (isEmpty()) return this\n    val result = DoubleArray(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 order.\n */\npublic fun BooleanArray.reversedArray():
BooleanArray {\n    if (isEmpty()) return this\n    val result = BooleanArray(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 order.\n */\npublic fun CharArray.reversedArray(): CharArray {\n    if (isEmpty())
return this\n    val result = CharArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n
result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Randomly shuffles elements in this 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
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 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
shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic
fun DoubleArray.shuffle(): 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
shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun CharArray.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")\npublic fun <T> Array<T>.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")\npublic fun ByteArray.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")\npublic fun ShortArray.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
}

```

https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm

```

*^@SinceKotlin("1.4")\npublic fun IntArray.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%E2%80%93Yates_shuffle#The_modern_algorithm

```

*^@SinceKotlin("1.4")\npublic fun LongArray.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%E2%80%93Yates_shuffle#The_modern_algorithm

```

*^@SinceKotlin("1.4")\npublic fun
FloatArray.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%E2%80%93Yates_shuffle#The_modern_algorithm

```

*^@SinceKotlin("1.4")\npublic fun DoubleArray.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%E2%80%93Yates_shuffle#The_modern_algorithm

```

*^@SinceKotlin("1.4")\npublic fun BooleanArray.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%E2%80%93Yates_shuffle#The_modern_algorithm

```

*^@SinceKotlin("1.4")\npublic fun CharArray.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 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 * \npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -
> R?): Unit {\n    if (size >
1) sortWith(compareBy(selector))\n}\n/n/**\n * Sorts elements in the array in-place 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 * \npublic inline fun <T, R :
Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1)
sortWith(compareByDescending(selector))\n}\n/n/**\n * Sorts elements in the array in-place 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<out T>.sortDescending(): Unit {\n    sortWith(reverseOrder())\n}\n/n/**\n * Sorts elements in the array in-place descending according to their natural
sort order.\n * \npublic fun ByteArray.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 ShortArray.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
IntArray.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 LongArray.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 FloatArray.sortDescending(): Unit {\n    if (size >

```

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1) {\n    sort()\n    reverse()\n } \n\n\n * Sorts elements in the array in-place descending according to
their natural sort order.\n */\npublic fun
    DoubleArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\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 * 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\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\n

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* Returns an array with all elements of this array sorted descending according to their natural sort order.\n

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*\npublic fun IntArray.sortedArrayDescending(): IntArray {\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 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return


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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

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*^public inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char>
{\n    return sortedWith(compareBy(selector))\n}\n\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 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *^public inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n *^public inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n *^public inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n *^public inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n *^public inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n *^public inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n *^public inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n *^public inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n    return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n *^public inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n    return sortedWith(compareByDescending(selector))\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 *^public fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {\n    return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n *^public fun ByteArray.sortedDescending(): List<Byte> {\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 *^public fun ShortArray.sortedDescending(): List<Short> {\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 *^public fun IntArray.sortedDescending(): List<Int> {\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 *^public fun LongArray.sortedDescending(): List<Long> {\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 *^public fun FloatArray.sortedDescending(): List<Float> {\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 *^public fun

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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 * \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 * \n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\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 * \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 * \n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\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 * Since Kotlin("1.1")\n @kotlin.internal.LowPriorityInOverloadResolution\n public 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 * Since Kotlin("1.4")\n @kotlin.internal.LowPriorityInOverloadResolution\n public 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 samples.collections.Arrays.ContentOperations.contentDeepToString\n * \n * Since Kotlin("1.1")\n @kotlin.internal.LowPriorityInOverloadResolution\n public 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 samples.collections.Arrays.ContentOperations.contentDeepToString\n * \n * Since Kotlin("1.4")\n @kotlin.internal.LowPriorityInOverloadResolution\n public expect fun <T> Array<out T>?.contentDeepToString(): String\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 * Since Kotlin("1.1")\n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public 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 * Since Kotlin("1.1")\n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public 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 * Since Kotlin("1.1")\n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public 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 * Since Kotlin("1.1")\n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public 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 * Since Kotlin("1.1")\n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public 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 * Since Kotlin("1.1")\n @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n @SinceKotlin("1.1")\n @DeprecatedSinceKotlin(hiddenSince = "1.4")\n public expect infix fun

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avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "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@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

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`infix fun DoubleArray?.contentEquals(other: DoubleArray?): 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`.`
`*\n@SinceKotlin("1.4")\npublic expect infix fun 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`.`
`*\n@SinceKotlin("1.4")\npublic expect infix fun CharArray?.contentEquals(other: CharArray?): Boolean`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\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>.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun ByteArray.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun ShortArray.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun IntArray.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun LongArray.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun FloatArray.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun DoubleArray.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun BooleanArray.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect fun CharArray.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@SinceKotlin("1.4")\npublic expect fun ByteArray?.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@SinceKotlin("1.4")\npublic expect fun IntArray?.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@SinceKotlin("1.4")\npublic expect fun FloatArray?.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentHashCode(): Int`
`* Returns a hash code based on the contents of this array as if it is [List].`
`*\n@SinceKotlin("1.4")\npublic expect fun`

`BooleanArray?.contentHashCode(): Int`
Returns a hash code based on the contents of this array as if it is [List].

`CharArray?.contentHashCode(): Int`
Returns a string representation of the contents of the specified array as if it is [List].

`IntArray?.contentToString(): String`
Returns a string representation of the contents of the specified array as if it is [List].

`LongArray?.contentToString(): String`
Returns a string representation of the contents of the specified array as if it is [List].

`FloatArray?.contentToString(): String`
Returns a string representation of the contents of the specified array as if it is [List].

`DoubleArray?.contentToString(): String`
Returns a string representation of the contents of the specified array as if it is [List].

`BooleanArray?.contentToString(): String`
Returns a string representation of the contents of the specified array as if it is [List].

`CharArray?.contentToString(): String`
Returns a string representation of the contents of the specified array as if it is [List].

`ShortArray?.contentToString(): String`
Returns a string representation of the contents of the specified array as if it is [List].

`ByteArrayList?.contentToString(): String`
Returns a string representation of the contents of the specified array as if it is [List].

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*\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 *\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 * \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 * \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 * \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

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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")`
`public expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray`
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")`
`public expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray`
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")`
`public expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray`
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")`
`public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray`
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.
 *
 * Since Kotlin (1.3) expect fun `BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray`
 * 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.
 *
 * Since Kotlin (1.3) expect fun `CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * @Suppress("NO_ACTUAL_FOR_EXPECT") expect fun `<T> Array<T>.copyOf(): Array<T>`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * public expect fun `ByteArray.copyOf(): ByteArray`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * public expect fun `ShortArray.copyOf(): ShortArray`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * public expect fun `IntArray.copyOf(): IntArray`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * public expect fun `LongArray.copyOf(): LongArray`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * public expect fun `FloatArray.copyOf(): FloatArray`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * public expect fun `DoubleArray.copyOf(): DoubleArray`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * public expect fun `BooleanArray.copyOf(): BooleanArray`
 * Returns new array which is a copy of the original array.
 * @sample `samples.collections.Arrays.CopyOfOperations.copyOf`
 *
 * public expect fun `CharArray.copyOf(newSize: Int): CharArray`
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample `samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
 *
 * public expect fun `ByteArray.copyOf(newSize: Int): ByteArray`
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 * @sample `samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`
 *
 * public expect fun `ShortArray.copyOf(newSize: Int): ShortArray`
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.

* \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 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@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 * \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 * \n * @throws IllegalArgumentException if [fromIndex] is greater than

[toIndex].\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 * @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 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")\n public 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")\n public 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")\n public 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")\n public 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")\n public 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")\n public 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")\n public 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 * \n public 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 * \n public val ByteArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n **\n * Returns the range of valid indices for the array.\n * \n public val ShortArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n **\n * Returns the range of valid indices for the array.\n * \n public val IntArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n **\n * Returns the range of valid indices for the array.\n * \n public val LongArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n **\n * Returns the range of valid indices for the array.\n * \n public val FloatArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n **\n * Returns the range of valid indices for the array.\n * \n public val DoubleArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n **\n * Returns the range of valid indices for the array.\n * \n public val BooleanArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n **\n * Returns the range of valid indices for the array.\n * \n public val CharArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n **\n * Returns `true`

```

if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean
{\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\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
*^@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 *^@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
*^@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 *^@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
*^@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 *^@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 *^@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
*^@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 *^@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 *^@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 *^@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 *^@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 *^@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 *^@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 *^@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 *^@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 *^npublic val <T> Array<out
T>.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n *^npublic val
ByteArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n *^npublic val
ShortArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n *^npublic val
IntArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n *^npublic val
LongArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n *^npublic val
FloatArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n *^npublic val
DoubleArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n *^npublic val
BooleanArray.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index for the array.\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
*^@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
*^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 *^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 *^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 *^npublic expect
operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the
original array

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and then the given [element].
`public expect operator fun FloatArray.plus(element: Float): FloatArray`
 * Returns an array containing all elements of the original array and then the given [element].
`public expect operator fun DoubleArray.plus(element: Double): DoubleArray`
 * Returns an array containing all elements of the original array and then the given [element].
`public expect operator fun BooleanArray.plus(element: Boolean): BooleanArray`
 * Returns an array containing all elements of the original array and then the given [element].
`public expect operator fun CharArray.plus(element: Char): CharArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`@Suppress("NO_ACTUAL_FOR_EXPECT") public expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`public expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`public expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`public expect operator fun IntArray.plus(elements: Collection<Int>): IntArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`public expect operator fun LongArray.plus(elements: Collection<Long>): LongArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`public expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`public expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`public expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
`public expect operator fun CharArray.plus(elements: Collection<Char>): CharArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`@Suppress("NO_ACTUAL_FOR_EXPECT") public expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`public expect operator fun ByteArray.plus(elements: ByteArray): ByteArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`public expect operator fun ShortArray.plus(elements: ShortArray): ShortArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`public expect operator fun IntArray.plus(elements: IntArray): IntArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`public expect operator fun LongArray.plus(elements: LongArray): LongArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray`
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
`public expect operator fun CharArray.plus(elements: CharArray): CharArray`
 * Returns an array containing all elements of the original array and then the given [element].
`@Suppress("NO_ACTUAL_FOR_EXPECT") public expect fun <T> Array<T>.plusElement(element: T): Array<T>`
 * Sorts the array in-place.
`@sample samples.collections.Arrays.Sorting.sortArray`
`public expect fun IntArray.sort(): Unit`
 * Sorts the array in-place.

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* \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):

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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
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\`)\npublic 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\`)\npublic fun <T : Comparable<T>> Array<out
T>.sortDescending(fromIndex: Int, toIndex: Int): Unit {\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\`)\npublic fun
ByteArray.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
ShortArray.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 IntArray.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 LongArray.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 FloatArray.sortDescending(fromIndex: Int, toIndex:

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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\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\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\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray { \n return BooleanArray(size) { index -> this[index] } }\n\n/** \n * Returns an array of Byte containing all of the elements of this generic array. \n\npublic fun Array<out Byte>.toByteArray(): ByteArray { \n return ByteArray(size) { index -> this[index] } }\n\n/** \n * Returns an array of Char containing all of the elements of this generic array. \n\npublic fun Array<out Char>.toCharArray(): CharArray { \n return CharArray(size) { index -> this[index] } }\n\n/** \n * Returns an array of Double containing all of the elements of this generic array. \n\npublic fun Array<out Double>.toDoubleArray(): DoubleArray { \n return DoubleArray(size) { index -> this[index] } }\n\n/** \n * Returns an array of Float containing all of the elements of this generic array. \n\npublic fun Array<out Float>.toFloatArray(): FloatArray { \n return FloatArray(size) { index -> this[index] } }\n\n/** \n * Returns an array of Int containing all of the elements of this generic array. \n\npublic fun Array<out Int>.toIntArray(): IntArray { \n return IntArray(size) { index -> this[index] } }\n\n/** \n * Returns an array of Long containing all of the elements of this generic array. \n\npublic fun Array<out Long>.toLongArray(): LongArray { \n return LongArray(size) { index -> this[index] } }\n\n/** \n * Returns an array of Short containing all of the elements of this generic array. \n\npublic fun Array<out Short>.toShortArray(): ShortArray { \n return ShortArray(size) { index -> this[index] } }\n\n/** \n * Returns a `*typed*` object array containing all of the elements of this primitive array. \n\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\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\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\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/** \n * Returns a `*typed*` object array containing all of the elements of this primitive 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():


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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 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>

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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 */\npublic 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 */\npublic 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 */\npublic 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 */\npublic 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 */\npublic 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 */\npublic 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 *
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>

```

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 * \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
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic 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 * \npublic 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
*\npublic 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 * \npublic 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
*\npublic 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
*\npublic 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 * \npublic 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
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/**\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 * \n * \n * 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/**\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 * \n * \n * 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/**\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 * \n * \n * 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/**\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 * \n * \n * 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/**\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 * \n * \n * 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/**\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 * \n * \n * 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/**\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 * \n * \n * public
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 */\n
public 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 {\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

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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 * \n public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination}\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 * \n public inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination}\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 * \n public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination}\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 * \n public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination}\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 * \n public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.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 * 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 public inline fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K, 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\n public inline fun <V> ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {\n val result = LinkedHashMap<Byte, 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\n public 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,


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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

```

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K>.associateWithTo(destination: M, valueSelector: (K) -> 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

SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Byte, in V>>
ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> 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

SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Short, in V>>
ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> 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

SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Int, in V>>
IntArray.associateWithTo(destination: M, valueSelector: (Int) -> 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

SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Long, in V>>
LongArray.associateWithTo(destination: M, valueSelector: (Long) -> 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

SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Float, in V>>
FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> 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

SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <V, M : MutableMap<in Double, in V>>
DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> 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

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samples.collections.Collections.Transformations.associateWithTo

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*\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
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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
```

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*\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 * 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 toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n    return
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toCollection(HashSet<Boolean>(mapCapacity(size)))\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun CharArray.toHashSet(): HashSet<Char> {\n    return\n    toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all\n 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/**\n * Returns a [List] containing all\n 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/**\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/**\n * Returns a [List] containing all elements.\n */\npublic fun IntArray.toList(): List<Int> {\n    return\n    when (size) {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun LongArray.toList(): List<Long> {\n    return when (size)\n    {\n        0 -> emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a\n [List] containing all elements.\n */\npublic fun FloatArray.toList(): List<Float> {\n    return when (size) {\n        0 ->\n        emptyList()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List]\n containing all elements.\n */\npublic fun DoubleArray.toList(): List<Double> {\n    return when (size) {\n        0 ->\n        emptyList()\n        1\n        -> listOf(this[0])\n        else -> this.toMutableList()\n    }\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 ->\n        listOf(this[0])\n        else -> this.toMutableList()\n    }\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 ->\n        listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a new [MutableList] filled with all\n elements of this array.\n */\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n    return\n    ArrayList(this.asCollection())\n}\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\n    in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList]\n filled with all elements of this array.\n */\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n    val list\n    = ArrayList<Short>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new\n [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/**\n * Returns a new\n [MutableList] filled with all elements of this array.\n */\npublic fun LongArray.toMutableList():\n    MutableList<Long> {\n    val list = ArrayList<Long>(size)\n    for (item in this) list.add(item)\n    return\n    list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun\n    FloatArray.toMutableList(): MutableList<Float> {\n    val list = ArrayList<Float>(size)\n    for (item in this)\n    list.add(item)\n    return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of\n this array.\n */\npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n    val list =\n    ArrayList<Double>(size)\n    for (item in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a new\n [MutableList] filled with all elements of this array.\n */\npublic fun BooleanArray.toMutableList():\n    MutableList<Boolean> {\n    val list = ArrayList<Boolean>(size)\n    for (item in this) list.add(item)\n    return\n    list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun\n    CharArray.toMutableList(): MutableList<Char> {\n    val list = ArrayList<Char>(size)\n    for (item in this)\n    list.add(item)\n    return list\n}\n\n/**\n * Returns a [Set] of all elements.\n * * The returned set preserves the\n element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toSet(): Set<T> {\n    return when\n    (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->\n        toCollection(LinkedHashSet<T>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * * The returned set preserves the element iteration order of\n 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 *

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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 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

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invoked on each element of original array.\n * \n * @sample

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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\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\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\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\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\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\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
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\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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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
*\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>> 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++,

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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>> 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
*\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>> 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
*\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>> 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\npubli
c 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\npubli
c 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\npubli
c 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 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

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ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npub
lic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<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 of original array, to the given
[destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out 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 array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C,
transform: (Byte) -> 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 */\npublic inline
fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> 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 */\npublic
inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> 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 */\npublic inline fun <R, C : MutableCollection<in R>>
LongArray.flatMapTo(destination: C, transform: (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 [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
FloatArray.flatMapTo(destination: C, transform: (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 [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C,
transform: (Double) -> 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 */\npublic inline
fun <R, C : 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 invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> CharArray.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 * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\n\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>> Array<out 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 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

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samples.collections.Collections.Transformations.groupBy\n *\npublic 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 *\npublic 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 *\npublic

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 *\npublic 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 *\npublic 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 *\npublic 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 *\npublic

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 *\npublic

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 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 *\npublic inline fun <K>

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CharArray.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 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 <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/**\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>
ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> 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>
ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> 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>
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> 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>
LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> 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>
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> 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>

```

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.groupByKeysAndValues\n */\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.groupByKeysAndValues\n */\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 */\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 */\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 */\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 */\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 a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
```

```
samples.collections.Collections.Transformations.groupBy\n */\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 samples.collections.Collections.Transformations.groupByKeysAndValues\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)

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{ 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 * \n public 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 * \n public 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 * \n public 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 * \n public
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 * \n public 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 * \n public
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

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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

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*^@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/**\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\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> ShortArray.mapIndexed(transform: (index: Int, Short) -> 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

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* 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> IntArray.mapIndexed(transform: (index: Int, Int) -> 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> LongArray.mapIndexed(transform: (index: Int, Long) -> 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> FloatArray.mapIndexed(transform: (index: Int, Float) -> 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> DoubleArray.mapIndexed(transform: (index: Int, Double) -> 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> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> 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> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n return mapIndexedTo(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 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 : Any> Array<out 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 array\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.\n *\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\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 <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> 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>> 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.


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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 * * @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

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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\n * into an [IndexedValue] containing the
index of that element and the element itself.\n */\npublic fun BooleanArray.withIndex():
Iterable<IndexedValue<Boolean>> {\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 CharArray.withIndex(): Iterable<IndexedValue<Char>> {\n  return

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IndexingIterable { iterator() }\n\n/**\n * Returns a list containing only distinct elements from the given array.\n *
\n * Among equal elements of the given array, only the first one will be present in the resulting list.\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 */\npublic fun <T> Array<out T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\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 */\npublic fun ByteArray.distinct(): List<Byte> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\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 */\npublic fun ShortArray.distinct(): List<Short> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\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 */\npublic fun IntArray.distinct(): List<Int> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\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 */\npublic fun LongArray.distinct(): List<Long> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\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 */\npublic fun FloatArray.distinct(): List<Float> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\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 */\npublic fun DoubleArray.distinct(): List<Double> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\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 */\npublic fun BooleanArray.distinct(): List<Boolean> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\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 */\npublic fun CharArray.distinct(): List<Char> {\n return this.toMutableSet().toList()\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 * Among elements of the given array with equal keys, only the first one will be present in the resulting list.\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 */\npublic inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\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 */\npublic 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

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samples.collections.Collections.Transformations.distinctAndDistinctBy\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 *^\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 *^\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 *^\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 *^\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 *^\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 *^\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 *^\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\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 *^\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n  val set =
this.toMutableSet()\n  set.retainAll(other)\n  return set\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

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order of the original array.

`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

* 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 LongArray.subtract(other: Iterable<Long>): Set<Long>`

`{ 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.\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 */\npublic 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 in the order of the [other] collection.

To get a set containing all elements that are contained in both collections use [intersect].

```
public infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. 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].

```
public infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. 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].

```
public infix fun LongArray.union(other: Iterable<Long>): Set<Long> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. 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].

```
public infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. 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].

```
public infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original array. 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].

```
public infix fun CharArray.union(other: Iterable<Char>): Set<Char> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}
```

Returns true if all elements match the given [predicate].

```
@sample samples.collections.Collections.Aggregates.all
public inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}
```

Returns true if all elements match the given [predicate].

```
@sample samples.collections.Collections.Aggregates.all
public inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}
```

Returns true if all elements match the given [predicate].

```
@sample samples.collections.Collections.Aggregates.all
public inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}
```

```

* 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 * @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

```



```

samples.collections.Collections.Aggregates.anyWithPredicate\n
    *^public 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 *^public
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 *^public 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 *^public
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 *^public
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
*^@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 *^@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
*^@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 *^@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 *^@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
*^@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 *^@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 *^@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
*^@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 *^public 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 *^public
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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public inline fun

```

```

CharArray.count(predicate: (Char) -> Boolean): Int {
    var count = 0
    for (element in this) if
(predicate(element)) ++count
    return count
}

fun <T> Accumulates value starting with [initial] value and
applying [operation] from left to right
to current accumulator value and each element.
Returns the
specified [initial] value if the array is empty.
@param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.

public inline fun <T, R> Array<out
T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this)
accumulator = operation(accumulator, element)
    return accumulator
}

fun <T> Accumulates value starting
with [initial] value and applying [operation] from left to right
to current accumulator value and each element.
Returns the specified [initial] value if the array is empty.
@param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.

public inline fun
<R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {
    var accumulator = initial
    for (element in
this) accumulator = operation(accumulator, element)
    return accumulator
}

fun <T> Accumulates value starting
with [initial] value and applying [operation] from left to right
to current accumulator value and each element.
Returns the specified [initial] value if the array is empty.
@param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.

public inline fun
<R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {
    var accumulator = initial
    for (element in
this) accumulator = operation(accumulator, element)
    return accumulator
}

fun <T> Accumulates value
starting with [initial] value and applying [operation] from left to right
to current accumulator value and each element.
Returns the specified [initial] value if the array is
empty.
@param [operation] function that takes current accumulator value and an element, and calculates the
next accumulator value.

public inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return
accumulator
}

fun <T> Accumulates value starting with [initial] value and applying [operation] from left to
right
to current accumulator value and each element.
Returns the specified [initial] value if the array is
empty.
@param [operation] function that takes current accumulator value and an element, and calculates the
next accumulator value.

public inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R
{
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator,
element)
    return accumulator
}

fun <T> Accumulates value starting with [initial] value and applying
[operation] from left to right
to current accumulator value and each element.
Returns the specified
[initial] value if the array is empty.
@param [operation] function that takes current accumulator value and
an element, and calculates the next accumulator value.

public inline fun <R> FloatArray.fold(initial: R,
operation: (acc: R, Float) -> R): R {
    var accumulator = initial
    for (element in this) accumulator =
operation(accumulator, element)
    return accumulator
}

fun <T> Accumulates value starting with [initial]
value and applying [operation] from left to right
to current accumulator value and each element.
Returns the specified [initial]
value if the array is empty.
@param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.

public
inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

fun <T> Accumulates value starting with [initial] value and applying [operation] from left to
right
to current accumulator value and each element.
Returns the specified [initial]
value if the array is empty.
@param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.

public inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {
    var
accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return
accumulator
}

fun <T> Accumulates value starting with [initial] value and applying [operation] from left to
right
to current accumulator value and each element.
Returns the specified [initial]
value if the array is empty.
@param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.

public inline fun <R> CharArray.fold(initial: R, operation:
(acc: R, Char) -> R): R {
    var accumulator = initial
    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 */\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

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calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation:
(index: Int, acc: R, Boolean) -> 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>
CharArray.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 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 */\npublic inline fun <T, R> Array<out
T>.foldRight(initial: R, operation: (T, 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 */\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, 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
*\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, 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 */\npublic inline fun <R>
IntArray.foldRight(initial: R, operation: (Int, 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 */\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, 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 */\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, 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 */\npublic inline fun <R>
DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n    var index = lastIndex\n

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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 */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation:
(Boolean, 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 */\npublic inline fun <R> CharArray.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 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 <T, R> Array<out T>.foldRightIndexed(initial: R,
operation: (index: Int, T, 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> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, 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> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, 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> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, 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> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, 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

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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

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*\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 } 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 } 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 } 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
} 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

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an element and the element itself\n * and performs 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 */\n
public 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(\n"Use maxOrNull instead.\n",
ReplaceWith(\n"this.maxOrNull()\n")\n)\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince = \n"1.5\n",
hiddenSince = \n"1.6\n")\npublic fun CharArray.max(): Char? {\n    return maxOrNull()\n}\n\n@Deprecated(\n"Use
maxByOrNull instead.\n", ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince =
\n"1.4\n", errorSince = \n"1.5\n", hiddenSince = \n"1.6\n")\npublic inline fun <T, R : Comparable<R>> Array<out
T>.maxBy(selector:
(T) -> R): T? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\n"Use maxByOrNull instead.\n",
ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince =
\n"1.5\n", hiddenSince = \n"1.6\n")\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R):
Byte? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\n"Use maxByOrNull instead.\n",
ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince =
\n"1.5\n", hiddenSince = \n"1.6\n")\npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R):
Short? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\n"Use maxByOrNull instead.\n",
ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince =
\n"1.5\n", hiddenSince = \n"1.6\n")\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int?
{\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\n"Use maxByOrNull
instead.\n", ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n",
errorSince = \n"1.5\n", hiddenSince = \n"1.6\n")\npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector:
(Long) -> R): Long? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\n"Use maxByOrNull instead.\n",
ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince =
\n"1.5\n", hiddenSince = \n"1.6\n")\npublic inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R):
Float? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\n"Use maxByOrNull instead.\n",
ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince =
\n"1.5\n", hiddenSince = \n"1.6\n")\npublic inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) ->
R): Double? {\n    return maxByOrNull(selector)\n}\n\n@Deprecated(\n"Use maxByOrNull instead.\n",
ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince
= \n"1.4\n", errorSince = \n"1.5\n", hiddenSince = \n"1.6\n")\npublic inline fun <R : Comparable<R>>
BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n    return
maxByOrNull(selector)\n}\n\n@Deprecated(\n"Use maxByOrNull instead.\n",
ReplaceWith(\n"this.maxByOrNull(selector)\n")\n)\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince =
\n"1.5\n", hiddenSince = \n"1.6\n")\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(\n"1.4\n")\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(\n"1.4\n")\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(\n"1.4\n")\n * \n * public inline fun <R : Comparable<R>> ShortArray.maxByOrNull(selector: (Short) ->

```



```

R): Short? {\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*\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.Collections.Aggregates.maxByOrNull\n *\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.Collections.Aggregates.maxByOrNull\n *\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.Collections.Aggregates.maxByOrNull\n *\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 value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\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.Collections.Aggregates.maxByOrNull\n *\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*\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) ->
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@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    }\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@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    }\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@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    }\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@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    }\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@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) -> 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@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    }\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@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->

```

```
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    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.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 */
```

```
* @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) ->
```

```
Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    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.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 */
```

```
* @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector:
```

```
(T) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    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.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 */
```

```
* @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float):
```

```
Float {
    if (isEmpty()) throw NoSuchElementException()
    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.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 */
```

```
* @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
```

```
Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    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.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 */
```

```
* @throws NoSuchElementException
```

```
if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float):
```

```
Float {
    if (isEmpty()) throw NoSuchElementException()
    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.
 * If any of values produced by [selector] function is `NaN`, the returned result is
 * `NaN`.
 */
```

```
* @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
```

```
Float):
```

```
Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    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@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

```

`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@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

```

`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@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 any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\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.\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@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 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

```

`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@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 * @throws NoSuchElementException if the array is empty.\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.\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@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

```

`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 <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 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 <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
    */\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.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
        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\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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
    */\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.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 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 <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 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 <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\n * or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned

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result is `NaN`.
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(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
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(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
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(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
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(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
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(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
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(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
*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic

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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`.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@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`.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@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
}

/** 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
@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 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
@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`.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@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`.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@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. If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.maxOrNull(selector: (Long) -> 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
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -> 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
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector: (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 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
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector: (Boolean) -> 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
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.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/**\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 <T, R : Comparable<R>> Array<out T>.maxOrNull(selector: (T) -> 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>> ByteArray.maxOrNull(selector: (Byte) -> 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

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOrNull(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 * 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>>
IntArray.maxOrNull(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 * 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>> LongArray.maxOrNull(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 * 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>>
FloatArray.maxOrNull(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 * 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>>
DoubleArray.maxOrNull(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 * 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.maxOrNull(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 * 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.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 element in the array.\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 <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, 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 (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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.maxOfWith(comparator: Comparator<in R>, 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 (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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, 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 (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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWith(comparator:
Comparator<in R>, 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
(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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.maxOfWith(comparator:
Comparator<in R>, 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
(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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.maxOfWith(comparator: Comparator<in R>, 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 (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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWith(comparator:

```

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Comparator<in R>, selector: (Double) -> R): R {\n  if (isEmpty())\n    throw NoSuchElementException()\n  var maxVAlue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =\n    selector(this[i])\n    if (comparator.compare(maxVAlue, v) < 0) {\n      maxVAlue = v\n    }\n  }\n  return\n  maxVAlue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if\n * the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWith(comparator:\nComparator<in R>, selector: (Boolean) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var\n  maxVAlue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if\n    (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\n * all values produced by [selector] function applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.maxOfWith(comparator:\nComparator<in R>, selector: (Char) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var\n  maxVAlue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if\n    (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]\n * function applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\n  inline fun <T, R> Array<out T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n  if\n  (isEmpty()) return null\n  var maxVAlue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =\n    selector(this[i])\n    if (comparator.compare(maxVAlue, v) < 0) {\n      maxVAlue = v\n    }\n  }\n  return\n  maxVAlue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n  if (isEmpty())\n  return null\n  var maxVAlue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if\n    (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]\n * function applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n  if (isEmpty())\n  return null\n  var maxVAlue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if\n    (comparator.compare(maxVAlue, v) < 0) {\n      maxVAlue = v\n    }\n  }\n  return maxVAlue\n}\n\n/**\n * Returns the largest\n * value according to the provided [comparator]\n * among all values produced by [selector] function applied to each\n * element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> 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    (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\n * element in the array or `null` if there are no elements.\n */

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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.

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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> LongArray.maxOfWithOrNull(comparator: Comparator<in R>, 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 (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] * 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.maxOfWithOrNull(comparator: Comparator<in R>, 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 (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] * 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.maxOfWithOrNull(comparator: Comparator<in R>, 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
(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] * 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.maxOfWithOrNull(comparator: Comparator<in R>, 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
(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] * 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.maxOfWithOrNull(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**\/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 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**\/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
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**\/n * Returns the largest element or `null`
if there are no elements.\/n *\/n@SinceKotlin("1.4")\/npublic 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 }\/n return max\/n}\/n\/n**\/n * Returns the largest element or `null` if there are
no elements.\/n *\/n@SinceKotlin("1.4")\/npublic fun ByteArray.maxOrNull(): Byte? {\/n if (isEmpty()) return

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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 */\n@SinceKotlin("1.4")\npublic
fun ShortArray.maxOrNull(): Short? {\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
*/\n@SinceKotlin("1.4")\npublic fun IntArray.maxOrNull(): Int? {\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 */\n@SinceKotlin("1.4")\npublic fun
LongArray.maxOrNull(): Long? {\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 * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun
FloatArray.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/**\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 DoubleArray.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/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\npublic fun CharArray.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")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use
maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n  return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince
= "1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic fun LongArray.maxWith(comparator: Comparator<in
Long>): Long? {\n  return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double?
{\n  return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince
= "1.6")\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {\n  return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n

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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@SinceKotlin("1.4")\npublic fun <T> Array<out
T>.maxWithOrNull(comparator: Comparator<in T>): T? {\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 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.")\nReplaceWith("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.")\nReplaceWith("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.")\nReplaceWith("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.")\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",

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hiddenSince = `1.6`)npublic fun ByteArray.min(): Byte? {n return minOrNull()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@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@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@Deprecated(`Use minOrNull
instead.`), ReplaceWith(`this.minOrNull()`)n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince =
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minOrNull()n}n@Deprecated(`Use minOrNull instead.`),
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minOrNull()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@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@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@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@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@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@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@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@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@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 * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.n * n * @sample

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samples.collections.Collections.Aggregates.minByOrNull\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.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ByteArray.minByOrNull(selector: (Byte) ->
R): Byte? {\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 *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ShortArray.minByOrNull(selector: (Short) -> R): Short? {\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 *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\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 *\n@SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\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 *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {\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 *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> DoubleArray.minByOrNull(selector: (Double) -> R): Double? {\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 *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return
null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var

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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
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharArray.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 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 <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@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@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@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@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

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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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*\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

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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.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

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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.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 `NaN`.\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@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 `NaN`.\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@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.minOf(selector: (T) -> 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

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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.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

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empty.\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.minOf(selector: (Short) ->\nFloat): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function\n is `NaN`, the returned result is `NaN`.\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\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float):\nFloat {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\ninline fun LongArray.minOf(selector: (Long) -> Float): Float {\n    if (isEmpty()) throw\nNoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\nselector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest\n value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of\n values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws\n NoSuchElementException if the array is empty.\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 FloatArray.minOf(selector: (Float) -> Float):\nFloat {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        minValue =\nminOf(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.\n * \n * If any of values produced by [selector]\n function is `NaN`, the returned result is `NaN`.\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\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->\nFloat): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned\n result is `NaN`.\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\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->\nFloat): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\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\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\ninline fun CharArray.minOf(selector: (Char) -> Float): Float {\n    if (isEmpty()) throw\nNoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
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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 * @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 : 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 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>>

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DoubleArray.minOf(selector: (Double) -> 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.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
BooleanArray.minOf(selector: (Boolean) -> 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.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> CharArray.minOf(selector: (Char) -> 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`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> 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`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.minOfOrNull(selector: (Byte) -> 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`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ShortArray.minOfOrNull(selector: (Short) -> 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`.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun IntArray.minOfOrNull(selector: (Int) -> 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`.
 */

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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.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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(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 * \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 DoubleArray.minOfOrNull(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 * \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 BooleanArray.minOfOrNull(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 * \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 CharArray.minOfOrNull(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 * \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> Array<out T>.minOfOrNull(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 * \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 ByteArray.minOfOrNull(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 * \n * If any of values produced by [selector] function

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is `NaN`, the returned result is `NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\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 * 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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\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 * 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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\n    inline fun LongArray.minOrNull(selector: (Long) -> 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 * 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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\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\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * 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 * 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\nByLambdaReturnType\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\n    minValue\n}\n\n/**\n * 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 * 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\nByLambdaReturnType\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\n    minValue\n}\n\n/**\n * 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 * 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\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) -> Float): Float? {\n    if (isEmpty())\n        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@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>.minOfOrNull(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 * 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>>
ByteArray.minOfOrNull(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 * 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.minOfOrNull(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 * 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>>
IntArray.minOfOrNull(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 * 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>> LongArray.minOfOrNull(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 * 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>>
FloatArray.minOfOrNull(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 * 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>>
DoubleArray.minOfOrNull(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 * 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? {
    if (isEmpty())
        return null
    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.

*SinceKotlin("1.4")OptIn(kotlin.experimental.ExperimentalTypeInference::class)OverloadResolutionByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> CharArray.minOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null
    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 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 <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    if (isEmpty()) throw NoSuchElementException
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 array.
@throws NoSuchElementException if the array is empty.

*SinceKotlin("1.4")OptIn(kotlin.experimental.ExperimentalTypeInference::class)OverloadResolutionByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.minOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {
    if (isEmpty()) throw NoSuchElementException
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 array.
@throws NoSuchElementException if the array is empty.

*SinceKotlin("1.4")OptIn(kotlin.experimental.ExperimentalTypeInference::class)OverloadResolutionByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.minOfWith(comparator: Comparator<in R>, selector: (Short) -> R): R {
    if (isEmpty()) throw NoSuchElementException
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 array.
@throws NoSuchElementException if the array is empty.

*SinceKotlin("1.4")OptIn(kotlin.experimental.ExperimentalTypeInference::class)OverloadResolutionByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <R> IntArray.minOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {
    if (isEmpty()) throw NoSuchElementException
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 array.
@throws NoSuchElementException if the array is empty.

*SinceKotlin("1.4")OptIn(kotlin.experimental.ExperimentalTypeInference::class)OverloadResolutionByLambdaReturnType@kotlin.internal.InlineOnly
public inline fun <R> LongArray.minOfWith(comparator: Comparator<in R>, selector: (Long) -> R): R {
    if (isEmpty()) throw NoSuchElementException
    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> 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@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@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@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@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@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.

```

*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolution
ByLambdaReturnType^@kotlin.internal.InlineOnly^public inline fun <R>
ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {
    if (isEmpty())
    return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 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>
IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {
    if (isEmpty()) return
    null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 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.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {
    if (isEmpty()) return
    null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 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>
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float)
-> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v
= selector(this[i])
        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 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>
DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {
    if (isEmpty())
    return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 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>
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {
    if (isEmpty())
    return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 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> CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {
    if (isEmpty()) return null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        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 Array<out Double>.minOrNull(): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        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 Array<out Float>.minOrNull(): Float? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        min = minOf(min, e)
    }
    return min
}

Returns the smallest element or `null` if there are no elements.
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Array<out T>.minOrNull(): T? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

Returns the smallest element or `null` if there are no elements.
@SinceKotlin("1.4")
public fun ByteArray.minOrNull(): Byte? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

Returns the smallest element or `null` if there are no elements.
@SinceKotlin("1.4")
public fun ShortArray.minOrNull(): Short? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

Returns the smallest element or `null` if there are no elements.
@SinceKotlin("1.4")
public fun IntArray.minOrNull(): Int? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

Returns the smallest element or `null` if there are no elements.
@SinceKotlin("1.4")
public fun LongArray.minOrNull(): Long? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) 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 FloatArray.minOrNull(): Float? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        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 DoubleArray.minOrNull(): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        min = minOf(min, e)
    }
    return min
}

Returns the smallest element or `null` if there are no elements.
@SinceKotlin("1.4")
public fun CharArray.minOrNull(): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
    hiddenSince = "1.6")
public fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {
    return minWithOrNull(comparator)
}

@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
    hiddenSince = "1.6")
public fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {
    return minWithOrNull(comparator)
}

@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
    hiddenSince = "1.6")
public fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {
    return minWithOrNull(comparator)
}

@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
    hiddenSince = "1.6")
public fun IntArray.minWith(comparator: Comparator<in Int>): Int? {
    return minWithOrNull(comparator)
}

@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")
@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.\",
ReplaceWith(\"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.\",
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 *\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 *\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 *\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 *\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 *\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 *\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 *\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 */\npublic fun <T> Array<out
T>.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 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.none\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.none\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.none\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.none\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.none\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.none\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.none\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.none\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.none\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 * @since Kotlin("1.4")\n */\n@kotlin.internal\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@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
*\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 {
    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

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.
 */

```


`\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 */\npublic inline fun IntArray.reduce(operation: (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(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 */\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 */\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 */\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 */\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 */\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.

```

    * @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 <S,
    T : S> Array<out T>.reduceIndexed(operation: (index: Int, 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(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
    ByteArray.reduceIndexed(operation: (index: Int, 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(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 ShortArray.reduceIndexed(operation:
    (index: Int, 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(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 IntArray.reduceIndexed(operation:
    (index: Int, acc: Int, Int) -> Int): Int {
    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 LongArray.reduceIndexed(operation:
    (index: Int, acc: Long, Long) -> Long): Long {
    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
    * \npublic inline fun FloatArray.reduceIndexed(operation:
    (index: Int, 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(index, accumulator, this[index])
    \n    }
    \n    return
    accumulator
    \n}
    * \n
    * 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
    * \npublic inline fun DoubleArray.reduceIndexed(operation:
    (index: Int, 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(index, accumulator, this[index])
    \n    }
    \n    return
    accumulator
    \n}
    * \n
    * 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
    * \npublic inline fun BooleanArray.reduceIndexed(operation:
    (index: Int, 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(index, accumulator, this[index])
    \n    }
    \n    return
    accumulator
    \n}
    * \n
    * 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
    * \npublic inline fun CharArray.reduceIndexed(operation:
    (index: Int, 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(index, accumulator, this[index])
    \n    }
    \n    return
    accumulator
    \n}
    * \n
    * 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
    * \n@SinceKotlin("1.4")
    * \npublic inline fun <S, T : S>
    Array<out T>.reduceIndexedOrNull(operation: (index: Int, 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(index,
    accumulator, this[index])
    \n    }
    \n    return accumulator
    \n}
    * \n
    * 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.\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")\npublic inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, 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(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")\npublic inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, 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(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")\npublic inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, 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(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")\npublic inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, 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(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")\npublic inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {\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")\npublic inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc: Double, Double) -> Double): Double? {\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")\npublic inline fun
BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {\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")\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/**\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/**\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\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@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/**\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/**\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

```

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*\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/**\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? {\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 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
DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\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 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
BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\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 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
CharArray.reduceOrNull(operation: (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(accumulator, this[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 * 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@public inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\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 * 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

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```

value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline fun
ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\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 ShortArray.reduceRight(operation:
(Short, acc: Short) -> Short): Short {\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 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

```

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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\npublic inline fun
BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\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\npublic inline
fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {\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\npublic
inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var
accumulator: S = 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\npublic inline fun
ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\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\npublic inline fun
ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var

```



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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 IntArray.reduceRightIndexed(operation: (index: Int, 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(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
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. 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

```

```

BooleanArray.reduceRightIndexed(operation: (index: Int, 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(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 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.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun
LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {\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 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

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* \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.\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
ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {\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@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {\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@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\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@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
FloatArray.reduceRightOrNull(operation: (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(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
DoubleArray.reduceRightOrNull(operation: (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(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

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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

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
BooleanArray.reduceRightOrNull(operation: (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(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

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*\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

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*\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())\n    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())

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return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\nfor (element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n }\nreturn 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, its index in the original array and current accumulator value that\n 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\n 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*\n@SinceKotlin("1.4")\npublic inline fun <T, R> Array<out T>.runningFoldIndexed(initial: R,\n    operation: (index: Int, acc: R, T) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result =\n    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\n    result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from\n left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial]\n value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would\n affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element,\n current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningFold\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic\n    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\n    = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\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 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 the index of an element, current accumulator value\n * and the element itself, and calculates the\n next accumulator\n value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n    if (isEmpty())\n    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    }\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 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 the\n 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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n    if (isEmpty()) return\n    listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for\n    (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\n [operation] from left to right\n * to each element, its index in the original array and current accumulator value that\n starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise\n otherwise

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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@kotlin.internal.InlineOnly\npublic inline fun <R>
```

LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n if (isEmpty())\n 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\npublic inline fun <R>
```

FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n if (isEmpty())\n 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\npublic inline fun <R>
```

DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n if (isEmpty())\n 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\npublic inline fun <R>
```

BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n if (isEmpty())\n 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\npublic 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) }
    val accumulator = initial
    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 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) \n public inline fun <S, T : S>
Array<out T>.runningReduce(operation: (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(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

```

* \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun ByteArray.runningReduce(operation:
(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(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

```

* \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun ShortArray.runningReduce(operation:
(acc: Short, Short) -> Short): List<Short> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Short>(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

```

* \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun IntArray.runningReduce(operation: (acc:
Int, Int) -> Int): List<Int> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Int>(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

```

* \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun LongArray.runningReduce(operation: (acc:
Long, Long) -> Long): List<Long> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<Long>(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.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation: (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(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 the first element of this array.\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@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation: (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(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 the first element of this array.\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@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation: (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(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 the first element of this array.\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@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation: (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(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")\npublic inline fun <S, T : S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    if (isEmpty()) return emptyList()\n    var accumulator: S = this[0]\n    val result = ArrayList<S>(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
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte,
```

```

Byte) -> Byte): List<Byte> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result =
ArrayList<Byte>(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
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic 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 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
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic 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 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
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic 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 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
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic 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 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
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

DoubleArray.runningReduceIndexed(operation: (index: Int, 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(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

BooleanArray.runningReduceIndexed(operation: (index: Int, 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(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

CharArray.runningReduceIndexed(operation: (index: Int, 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(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 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
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <T, R> Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * 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
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * 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
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * 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> 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
inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> 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> ByteArray.scanIndexed(initial:
R, operation: (index: Int, acc: R, Byte) -> 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> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> 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> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> 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> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> 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

```

```

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public
inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * 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.scan
*/

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public
inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * 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.scan
*/

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public
inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * 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.scan
*/

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public
inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * 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")
^public inline fun <T>
Array<out T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 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")
^public inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {
    var sum: Int = 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")
^public inline fun
ShortArray.sumBy(selector: (Short) -> Int): Int {
    var sum: Int = 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")
^public inline fun
IntArray.sumBy(selector: (Int) -> Int): Int {
    var sum: Int = 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")
^public inline fun
LongArray.sumBy(selector: (Long) -> Int): Int {
    var sum: Int = 0
    for (element in this) {
        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.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.\",
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

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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
CharArray.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 element in the array.\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 <T>
Array<out 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 array.\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
ByteArray.sumOf(selector: (Byte) -> 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 array.\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
ShortArray.sumOf(selector:
  (Short) -> 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 array.\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
IntArray.sumOf(selector: (Int) -> 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 array.\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
LongArray.sumOf(selector: (Long) -> 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
  array.\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
FloatArray.sumOf(selector: (Float) -> 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 array.\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
DoubleArray.sumOf(selector: (Double) -> Int): Int {\n
  var sum: Int = 0.toInt()\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("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> 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 array.\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
CharArray.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 element in the array.\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
<T> Array<out 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 array.\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
ByteArray.sumOf(selector: (Byte) -> 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
*\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
ShortArray.sumOf(selector: (Short) -> 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
*\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
IntArray.sumOf(selector: (Int) -> 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
*\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
LongArray.sumOf(selector: (Long) -> 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
*\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
FloatArray.sumOf(selector: (Float) -> 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
*\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
DoubleArray.sumOf(selector: (Double) -> 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
*\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
BooleanArray.sumOf(selector: (Boolean) -> 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
*\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
CharArray.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 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

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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
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/**\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/**\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/**\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/**\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/**\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/**\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/**\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

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inline fun DoubleArray.sumOf(selector: (Double) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    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("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    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("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun CharArray.sumOf(selector: (Char) -> 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.

public fun <T : Any> Array<T?>.requireNonNulls(): Array<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
}

@Suppress("UNCHECKED_CAST")
return this as Array<T>
}
// Splits the original array 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.Arrays.Transformations.partitionArrayOfPrimitives

public inline fun <T> Array<out 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)
}
// Splits the original array 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.Arrays.Transformations.partitionArrayOfPrimitives

public inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {
    val first = ArrayList<Byte>()
    val second = ArrayList<Byte>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
// Splits the original array 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.Arrays.Transformations.partitionArrayOfPrimitives

public inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {
    val first = ArrayList<Short>()
    val second = ArrayList<Short>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
// Splits the original array 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.Arrays.Transformations.partitionArrayOfPrimitives

public inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {
    val first = ArrayList<Int>()
    val second = ArrayList<Int>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}
// Splits the original array 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.Arrays.Transformations.partitionArrayOfPrimitives

public inline fun LongArray.partition(predicate:

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(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    } 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
FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n  val 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

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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 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 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> CharArray.zip(other: Array<out R>):
List<Pair<Char, 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 *\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 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 <R, V>
ByteArray.zip(other: Array<out R>, transform: (a: Byte, 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 *\npublic inline fun <R, V>
ShortArray.zip(other: Array<out R>, transform: (a: Short, 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 *\npublic inline fun <R, V>
IntArray.zip(other: Array<out R>, transform: (a: Int, 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 *\npublic inline fun <R, V>
LongArray.zip(other: Array<out R>, transform: (a: Long, 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
*\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

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list.add(transform(this[i], other[i]))\n } \n return list\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 *\npublic inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, 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 *\npublic inline
fun <R, V> BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, 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 *\npublic inline fun <R, V>
CharArray.zip(other:
Array<out R>, transform: (a: Char, 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 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 <T, 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 * 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>
ByteArray.zip(other: Iterable<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` 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> ShortArray.zip(other: Iterable<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` 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 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> 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
samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> FloatArray.zip(other: Iterable<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` 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>
DoubleArray.zip(other: Iterable<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` 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>
BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n return zip(other) { t1, t2 -> t1 to t2
}

```

```

}\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> CharArray.zip(other: Iterable<R>):
List<Pair<Char, 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] 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
\npublic inline fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, 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 *
\npublic inline fun <R, V>
ByteArray.zip(other: Iterable<R>, transform: (a: Byte, 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 *
\npublic inline fun <R, V>
ShortArray.zip(other: Iterable<R>, transform: (a: Short, 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
\npublic inline fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, 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 *
\npublic inline fun <R, V>
LongArray.zip(other: Iterable<R>,
transform: (a: Long, 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 *
\npublic inline
fun <R, V> FloatArray.zip(other: Iterable<R>, transform: (a: Float, 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 *
\npublic inline fun <R, V>

```

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DoubleArray.zip(other: Iterable<R>, transform: (a: Double, 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 */\npublic inline fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, 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 */\npublic inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, 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 */\npublic infix fun ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> {\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 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] 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 IntArray.zip(other: IntArray): 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 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 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 returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun FloatArray.zip(other: FloatArray): List<Pair<Float, Float>> {\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 DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\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 BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> {\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 CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\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 */

```

```

*public inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

* Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements. * The returned list has length of the shortest array. * @sample samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

* Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements. * The returned list has length of the shortest array. * @sample samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

* Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements. * The returned list has length of the shortest array. * @sample samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

* Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements. * The returned list has length of the shortest array. * @sample samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

* Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements. * The returned list has length of the shortest array. * @sample samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

* Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements. * The returned list has length of the shortest array. * @sample samples.collections.Iterables.Operations.zipIterableWithTransform

```

*public inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

* Returns a list of values built from the elements of `this` array and the [other] array with the same index * using the provided [transform] function applied to each pair of elements. * The returned list has length of the shortest array. * @sample samples.collections.Iterables.Operations.zipIterableWithTransform

```

CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

* Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. * 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 * @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/**\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>
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) 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>
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)\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> 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)\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>
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

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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: CharSequence = \"...\", transform: ((Byte) -> 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 ShortArray.joinToString(separator: CharSequence = '\', '\', prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> 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 IntArray.joinToString(separator: CharSequence = '\', '\', prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> 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 LongArray.joinToString(separator:
CharSequence = '\', '\', prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Long) -> 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 FloatArray.joinToString(separator:
CharSequence = '\', '\', prefix: CharSequence
= \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) ->
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 DoubleArray.joinToString(separator: CharSequence = '\', '\', prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> 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

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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.joinToString\n *\npublic fun
BooleanArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence =
\"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> 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 CharArray.joinToString(separator:
CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Char) -> 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 array returning its elements when being iterated.\n *\npublic fun <T> Array<out T>.asIterable():
Iterable<T> {\n
if (isEmpty()) return emptyList()\n
return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n *\npublic
fun ByteArray.asIterable(): Iterable<Byte> {\n
if (isEmpty()) return emptyList()\n
return Iterable { this.iterator()
}\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.\n *\npublic fun ShortArray.asIterable(): Iterable<Short> {\n
if (isEmpty()) return emptyList()\n
return
Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its
elements when being iterated.\n *\npublic fun IntArray.asIterable(): Iterable<Int> {\n
if (isEmpty()) return
emptyList()\n
return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n *\npublic fun LongArray.asIterable(): Iterable<Long> {\n
if (isEmpty()) return emptyList()\n
return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that
wraps the original array returning its elements
when being iterated.\n *\npublic fun FloatArray.asIterable(): Iterable<Float> {\n
if (isEmpty()) return
emptyList()\n
return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n *\npublic fun DoubleArray.asIterable(): Iterable<Double> {\n
if (isEmpty()) return emptyList()\n
return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance
that wraps the original array returning its elements when being iterated.\n *\npublic fun BooleanArray.asIterable():
Iterable<Boolean> {\n
if (isEmpty()) return emptyList()\n
return Iterable { this.iterator() }\n}\n\n/**\n * Creates
an [Iterable] instance that wraps the original array returning its elements when being iterated.\n *\npublic fun
CharArray.asIterable(): Iterable<Char> {\n
if (isEmpty()) return emptyList()\n
return Iterable { this.iterator()
}\n}\n\n/**\n * Creates a [Sequence] instance that wraps the
original array returning its elements when being iterated.\n * \n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n *\npublic fun <T> Array<out T>.asSequence():
Sequence<T> {\n
if (isEmpty()) return emptySequence()\n
return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *\npublic fun ByteArray.asSequence():
Sequence<Byte> {\n
if (isEmpty()) return emptySequence()\n
return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *\npublic fun ShortArray.asSequence():
Sequence<Short> {\n
if (isEmpty()) return emptySequence()\n
return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps
the original array returning its elements when being iterated.\n * \n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n *\npublic fun IntArray.asSequence():
Sequence<Int> {\n
if (isEmpty()) return emptySequence()\n
return Sequence { this.iterator() }\n}\n\n/**\n *

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Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun LongArray.asSequence():
Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun FloatArray.asSequence():
Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that
wraps the original array returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun DoubleArray.asSequence():
Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\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 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 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 fun Array<out Byte>.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 array.\n * \n\n@kotlin.jvm.JvmName("averageOfShort")\n\npublic fun 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 in the array.\n * \n\n@kotlin.jvm.JvmName("averageOfInt")\n\npublic fun 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 an average value of elements 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 array.\n * \n\n@kotlin.jvm.JvmName("averageOfFloat")\n\npublic fun
Array<out Float>.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 array.\n * \n\n@kotlin.jvm.JvmName("averageOfDouble")\n\npublic fun
Array<out Double>.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 array.\n * \n\npublic fun
ByteArray.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 array.\n * \n\npublic 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 an average value of elements in the array.\n * \n\npublic
fun IntArray.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 array.\n * \n\npublic fun LongArray.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 array.\n * \n\npublic fun FloatArray.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

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else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun
DoubleArray.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
the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Array<out
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 array.\n
*/\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Array<out 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
array.\n */\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Array<out 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 array.\n */\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Array<out 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 array.\n */\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Array<out 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 array.\n */\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Array<out 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 * Returns the sum of
all elements in the array.\n */\npublic fun ByteArray.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 array.\n */\npublic fun
ShortArray.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 array.\n */\npublic fun IntArray.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 array.\n */\npublic fun LongArray.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 array.\n
*/\npublic fun FloatArray.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 array.\n */\npublic fun
DoubleArray.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 2010-2021 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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\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
random
element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\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("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongRange.random(): Long {\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("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\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("1.3")\npublic fun IntRange.random(random: Random): Int {\n    try {\n        return
random.nextInt(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("1.3")\npublic fun
LongRange.random(random: Random): Long {\n    try {\n        return random.nextLong(this)\n    } catch (e:

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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("1.3")\npublic fun
CharRange.random(random: Random): Char {\n    try {\n        return random.nextInt(first.code +
1).toChar()\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntRange.randomOrNull(): Int? {\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongRange.randomOrNull(): Long? {\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun CharRange.randomOrNull(): Char? {\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
IntRange.randomOrNull(random:
Random): Int? {\n    if (isEmpty())\n        return null\n    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 */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
LongRange.randomOrNull(random: Random): Long? {\n    if (isEmpty())\n        return null\n    return
random.nextLong(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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharRange.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return
random.nextInt(first.code, last.code + 1).toChar()\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("1.3")\n@kotlin.internal.InlineOnly\npublic
inline operator fun IntRange.contains(element: Int?): 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("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator
fun LongRange.contains(element: Long?): 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("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun
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 *

```

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\n1.5\n)\n@kotlin.jvm.JvmName(\nfloatRangeContains\n)\npublic operator fun ClosedRange<Float>.contains(value:
Byte): Boolean {\n return contains(value.toFloat())\n}\n\n**\n * Checks if the specified [value] belongs to this
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hiddenSince = \n1.5\n)\n@kotlin.jvm.JvmName(\nintRangeContains\n)\npublic operator fun
ClosedRange<Int>.contains(value: Double): Boolean {\n return value.toIntExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
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\n1.5\n)\n@kotlin.jvm.JvmName(\nshortRangeContains\n)\npublic operator fun
ClosedRange<Short>.contains(value: Double): Boolean {\n return value.toShortExactOrNull().let { if (it != null)
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*\n@kotlin.jvm.JvmName(\nfloatRangeContains\n)\npublic operator fun ClosedRange<Float>.contains(value:
Double): Boolean {\n return contains(value.toFloat())\n}\n\n**\n * Checks if the specified [value] belongs to this
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hiddenSince = \n1.5\n)\n@kotlin.jvm.JvmName(\nintRangeContains\n)\npublic
operator fun ClosedRange<Int>.contains(value: Float): Boolean {\n return value.toIntExactOrNull().let { if (it !=
null) contains(it) else false }\n}\n\n**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated(\nThis `contains` operation mixing integer and floating point arguments has ambiguous semantics
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= \n1.5\n)\n@kotlin.jvm.JvmName(\nshortRangeContains\n)\npublic operator fun
ClosedRange<Short>.contains(value: Float): Boolean {\n return value.toShortExactOrNull().let { if (it != null)
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*\n@kotlin.jvm.JvmName("\doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value:
Float): Boolean {\n  return contains(value.toDouble())\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: Int):
Boolean {\n  return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("\byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Int):
Boolean {\n  return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\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: Int): Boolean {\n  return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
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Int): Boolean {\n  return contains(value.toFloat())\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:
Long): Boolean {\n  return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("\byteRangeContains")\npublic
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the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("\intRangeContains")\npublic operator fun
ClosedRange<Int>.contains(value: Short): 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: Short): Boolean {\n  return contains(value.toLong())\n}\n\n/**\n * Checks if
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`@kotlin.jvm.JvmName("floatRangeContains")`
`public operator fun ClosedRange<Float>.contains(value: Short): Boolean {`
`return contains(value.toFloat())`
`}`
`n/n/**`
`* 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.`
`n/n`
`public infix fun Int.downTo(to: Byte): IntProgression {`
`return IntProgression.fromClosedRange(this, to.toInt(), -1)`
`}`
`n/n/**`
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`public infix fun Long.downTo(to: Byte): LongProgression {`
`return LongProgression.fromClosedRange(this, to.toLong(), -1L)`
`}`
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`public infix fun Byte.downTo(to: Byte): IntProgression {`
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`}`
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`* If the [to] value is greater than `this` value the returned progression is empty.`
`n/n`
`public infix fun Short.downTo(to: Byte): IntProgression {`
`return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)`
`}`
`n/n/**`
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`* If the [to] value is greater than `this` value the returned progression is empty.`
`n/n`
`public infix fun Int.downTo(to: Long): LongProgression {`
`return LongProgression.fromClosedRange(this.toLong(), to, -1L)`
`}`
`n/n/**`
`* Returns a progression from this value down to the specified [to] value with the step -1.`
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* If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Long): LongProgression {\n return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\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 Int.downTo(to: Short): IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\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 Long.downTo(to: Short): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\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 * 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 given 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.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun Long.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun Short.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun Double.toByteExactOrNull(): Byte? {\n return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun Float.toByteExactOrNull(): 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.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n return this .. (to.toInt() - 1).toInt()\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 */\npublic infix fun Long.until(to: Byte): LongRange {\n return this .. (to.toLong() - 1).toLong()\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 */\npublic infix fun Byte.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\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 */\npublic infix fun Short.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\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 */\npublic infix fun Char.until(to: Char): CharRange {\n if (to <= '\u0000') return CharRange.EMPTY\n return this .. (to - 1).toChar()\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 */\npublic infix fun Int.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this .. (to - 1).toInt()\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 */\npublic infix fun Long.until(to: Int): LongRange {\n return this .. (to.toLong() - 1).toLong()\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 */\npublic infix fun Byte.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to - 1).toInt()\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 */\npublic infix fun Short.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to - 1).toInt()\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 */\npublic infix fun Int.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\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 */\npublic infix fun Long.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this .. (to - 1).toLong()\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 */\npublic infix fun Byte.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\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 */\npublic infix fun Short.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\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.

```

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()
}

```

Ensures that this value is not less than the specified [minimumValue].

```

@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtLeast

```

```

public fun <T : Comparable<T>>
T.coerceAtLeast(minimumValue: T): T {
    return if (this < minimumValue) minimumValue else this
}

```

Ensures that this value is not less than the specified [minimumValue].

```

@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtLeast

```

```

public fun Byte.coerceAtLeast(minimumValue: Byte):
Byte {
    return if (this < minimumValue) minimumValue else this
}

```

Ensures that this value is not less than the specified [minimumValue].

```

@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtLeast

```

```

public fun Short.coerceAtLeast(minimumValue: Short):
Short {
    return if (this < minimumValue) minimumValue else this
}

```

Ensures that this value is not less than the specified [minimumValue].

```

@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtLeast

```

```

public fun Int.coerceAtLeast(minimumValue: Int): Int
{
    return if (this < minimumValue) minimumValue else this
}

```

Ensures that this value is not less than the specified [minimumValue].

```

@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtLeast

```

```

public fun Long.coerceAtLeast(minimumValue: Long): Long {
    return if (this < minimumValue) minimumValue else this
}

```

Ensures that this value is not less than the specified [minimumValue].

```

@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtLeast

```

```

public fun Float.coerceAtLeast(minimumValue: Float): Float {
    return if (this < minimumValue) minimumValue else this
}

```

Ensures that this value is not less than the specified [minimumValue].

```

@return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtLeast

```

```

public fun Double.coerceAtLeast(minimumValue: Double): Double {
    return if (this < minimumValue) minimumValue else this
}

```

Ensures that this value is not greater than the specified [maximumValue].

```

@return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtMostComparable

```

```

public fun <T : Comparable<T>>
T.coerceAtMost(maximumValue: T): T {
    return if (this > maximumValue)
        maximumValue else this
}

```

Ensures that this value is not greater than the specified [maximumValue].

```

@return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtMost

```

```

public fun Byte.coerceAtMost(maximumValue: Byte): Byte {
    return if (this > maximumValue) maximumValue else this
}

```

Ensures that this value is not greater than the specified [maximumValue].

```

@return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtMost

```

```

public fun Short.coerceAtMost(maximumValue: Short):
Short {
    return if (this > maximumValue) maximumValue else this
}

```

Ensures that this value is not greater than the specified [maximumValue].

```

@return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.

```

sample

```

samples.comparisons.ComparableOps.coerceAtMost

```

```

Short {
    return if (this > maximumValue) maximumValue else this
}

Ensures that this value is not greater than the specified [maximumValue].

@return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.

@sample samples.comparisons.ComparableOps.coerceAtMost

public fun Int.coerceAtMost(maximumValue: Int): Int {
    return if (this > maximumValue) maximumValue else this
}

Ensures that this value is not greater than the specified [maximumValue].

@return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.

@sample samples.comparisons.ComparableOps.coerceAtMost

public fun Long.coerceAtMost(maximumValue: Long): Long {
    return if (this > maximumValue) maximumValue else this
}

Ensures that this value is not greater than the specified [maximumValue].

@return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.

@sample samples.comparisons.ComparableOps.coerceAtMost

public fun Float.coerceAtMost(maximumValue: Float): Float {
    return if (this > maximumValue) maximumValue else this
}

Ensures that this value is not greater than the specified [maximumValue].

@return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.

@sample samples.comparisons.ComparableOps.coerceAtMost

public fun Double.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else this
}

Ensures that this value lies in the specified range [minimumValue]..[maximumValue].

@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].

@sample samples.comparisons.ComparableOps.coerceInComparable

public fun <T> Comparable<T>.coerceIn(minimumValue: T?, maximumValue: T?): T {
    if (minimumValue != null && maximumValue != null) {
        if (minimumValue > maximumValue) throw
            IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
        if (this < minimumValue) return minimumValue
        if (this > maximumValue) return maximumValue
    }
    else {
        if (minimumValue != null && this < minimumValue) return minimumValue
        if (maximumValue != null && this > maximumValue) return maximumValue
    }
    return this
}

Ensures that this value lies in the specified range [minimumValue]..[maximumValue].

@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].

@sample samples.comparisons.ComparableOps.coerceIn

public fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {
    if (minimumValue > maximumValue) throw
        IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

Ensures that this value lies in the specified range [minimumValue]..[maximumValue].

@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].

@sample samples.comparisons.ComparableOps.coerceIn

public fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {
    if (minimumValue > maximumValue) throw
        IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

Ensures that this value lies in the specified range [minimumValue]..[maximumValue].

@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].

@sample samples.comparisons.ComparableOps.coerceIn

public fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {
    if (minimumValue > maximumValue) throw
        IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    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 *\npublic fun Long.coerceIn(minimumValue: Long,
maximumValue: Long): Long {\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 *\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 *\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@SinceKotlin("1.1")\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 *\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 *\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 *\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\n * Copyright 2010-2022 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\npu
blic 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        /**\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.toUInt())\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.toUInt())\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.toUInt())\n\n        /** Multiplies this value by the other value. *\n
         * @kotlin.internal.InlineOnly\n        public inline operator fun times(other: UShort): UInt =

```

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this.toUInt().times(other.toUInt())\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
/** 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.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.toUInt().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 =
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

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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 @kotlin.internal.InlineOnly\n public inline infix fun or(other: UByte): UByte = UByte(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: UByte): UByte = UByte(this.data xor other.data)\n\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 * \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 * \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 /**\n * Converts this [UByte] value to [Short].\n * \n * The resulting `Short` value represents the same numerical value as this `UByte`.\n * \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 /**\n * Converts this [UByte] value to [Int].\n * \n * The resulting `Int` value represents the same numerical value as this `UByte`.\n * \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 /**\n * Converts this [UByte] value to [Long].\n * \n * The resulting `Long` value represents the same numerical value as this `UByte`.\n * \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 /**\n * Converts this [UByte] value to [UShort].\n * \n * The resulting `UShort` value represents the same numerical value as this `UByte`.\n * \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 /**\n * Converts this [UByte] value to [UInt].\n * \n * The resulting `UInt` value represents the same numerical value as this `UByte`.\n * \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 /**\n * Converts this [UByte] value to [ULong].\n * \n * The resulting `ULong` value represents the same numerical value as this `UByte`.\n * \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 * \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 /**\n * Converts this [UByte] value to [Double].\n * \n * The resulting `Double` value represents the same numerical value as this `UByte`.\n * \n @kotlin.internal.InlineOnly\n public inline

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fun toDouble(): Double = this.toInt().toDouble()\n\n public
override fun toString(): String = toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UByte].\n *\n * If
this value is positive, the resulting `UByte` value represents the same numerical value as this `Byte`.\n *\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
npublic inline fun Byte.toUByte(): UByte = UByte(this)\n\n/**\n * Converts this [Short] 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 *\n
the same numerical value as this `Short`.\n *\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
npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\n\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 *\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
npublic inline fun Int.toUByte(): UByte = UByte(this.toByte())\n\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 *\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
npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\n\n", /*\n * Copyright 2010-2022 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\npu
blic 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
*\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n
*\n * or a positive number if it's greater than other.\n * \n @kotlin.internal.InlineOnly\n
*\n @Suppress("OVERRIDE_BY_INLINE")\n public override 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
*\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 /**\n * Adds the other value to this value. *\n

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@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\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 /** 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 /** 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 /** 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 /** Subtracts the other value
from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt =
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

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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 /**\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.toUInt()).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 = rem(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: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value
incremented by one.\n * \n * @sample samples.misc.Builtins.inc\n * \n
*\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UInt = UInt(data.inc())\n\n /**\n * Returns
this value decremented by one.\n * \n * @sample samples.misc.Builtins.dec\n * \n
*\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 /**\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
*\n @kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\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 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
*\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
*\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
*\n @kotlin.internal.InlineOnly\n public inline fun inv(): UInt
= UInt(data.inv())\n\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
*\n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data.toByte()\n\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
*\n @kotlin.internal.InlineOnly\n public inline fun
toShort(): Short = data.toShort()\n\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`. Otherwise
the result is negative.\n * \n * The resulting `Int` value has the same binary representation as this `UInt` value.\n

```

```

    @kotlin.internal.InlineOnly public inline fun toInt(): Int = data.toInt() /** Converts this [UInt] value
to [Long]. The resulting `Long` value represents the same numerical value as this `UInt`. The least significant
32 bits of the resulting `Long` 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
toLong(): Long = data.toLong() and 0xFFFF_FFFF /** Converts this [UInt] value to [UByte]. If this value is less
than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents the same numerical value as this
`UInt`. The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value. */
    @kotlin.internal.InlineOnly public inline fun toUByte(): UByte = data.toUByte() /** Converts this
[UInt] value to [UShort]. If 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
toInt(): UInt = this.toInt() /** 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.toInt(): 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.toInt(): 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.toInt(): 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.toInt(): 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`. */

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())\n/**\n * Converts this [Double] value to [UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Double.toUInt(): UInt = doubleToUInt(this)\n","/*\n * Copyright 2010-2022 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\npublic value class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {\n\n    companion object {\n\n        /**\n         * A constant holding the minimum value an instance of UShort can have.\n         */\n        public const val MIN_VALUE: UShort = UShort(0)\n\n        /**\n         * A constant holding the maximum value an instance of UShort can have.\n         */\n        public const val MAX_VALUE: UShort = UShort(-1)\n\n        /**\n         * The number of bytes used to represent an instance of UShort in a binary form.\n         */\n        public const val SIZE_BYTES: Int = 2\n\n        /**\n         * The number of bits used to represent an instance of UShort in a binary form.\n         */\n        public const val SIZE_BITS: Int = 16\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.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    @Suppress("OVERRIDE_BY_INLINE")\n    public override 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    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n    /**\n     * Subtracts the other value from this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n\n    /**\n     * Subtracts the other value from this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n\n    /**\n     * Subtracts the other value from this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n\n    /**\n     * Subtracts the other value from this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n    /**\n     * Multiplies this value by the other value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n\n    /**\n     * Multiplies this value by the other value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UShort): UInt =

```

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this.toUInt().times(other.toUInt())\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
/** 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.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.toUInt().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 =
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
   */

```

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* 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\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\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    * 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

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represents the same numerical value as this `UShort`.
 * Kotlin internal inline fun public inline fun
toDouble(): Double = this.toInt().toDouble()
 * Kotlin internal override fun toString(): String =
toInt().toString()
 * Converts this [Byte] value to [UShort].
 * If this value is positive, the
resulting `UShort` value represents the same numerical value as this `Byte`
 * The least significant 8 bits of the
resulting `UShort` value are the same as the bits of this `Byte` value,
 * whereas the most significant 8 bits are
filled with the sign bit of this value.
 * Kotlin internal WasExperimental(ExperimentalUnsignedTypes::class) Kotlin internal inline fun
public inline fun Byte.toUShort(): UShort = UShort(this.toShort())
 * Converts this [Short] value to
[UShort].
 * If this value is positive, the resulting `UShort` value represents the same numerical value as this
`Short`.
 * The resulting `UShort` value has the same binary
representation as this `Short` value.
 * Kotlin internal WasExperimental(ExperimentalUnsignedTypes::class) Kotlin internal inline fun
public inline fun Short.toUShort(): UShort = UShort(this)
 * Converts this [Int] value to [UShort].
 * If
this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents
 * the same numerical value as this `Int`.
 * The resulting `UShort` value is represented by the least significant 16
bits of this `Int` value.
 * Kotlin internal WasExperimental(ExperimentalUnsignedTypes::class) Kotlin internal inline fun
public inline fun Int.toUShort(): UShort = UShort(this.toShort())
 * Converts this [Long] value to
[UShort].
 * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort`
value represents
 * the same numerical value as this `Long`.
 * The resulting `UShort` value is represented by
the least significant 16
bits of this `Long` value.
 * Kotlin internal WasExperimental(ExperimentalUnsignedTypes::class) Kotlin internal inline fun
public inline fun Long.toUShort(): UShort = UShort(this.toShort())
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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.ranges
 * A range of values of type `Char`.
 * Kotlin internal public class CharRange(start: Char, endInclusive:
Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {
 * override val start: Char get() = first
 * override val endInclusive: Char get() = last
 * override fun contains(value: Char): Boolean = first <= value &&
value <= last
 * Checks whether the range is empty.
 * The range is empty if its start value is
greater than the end value.
 * override fun
isEmpty(): Boolean = first > last
 * override fun equals(other: Any?): Boolean =
other is CharRange &&
(isEmpty() && other.isEmpty() || first == other.first && last == other.last)
 * override fun hashCode(): Int =
if (isEmpty()) -1 else (31 * first.code + last.code)
 * override fun toString(): String = "$first..$last"
 * companion object {
 * /** An empty range of values of type Char.
 * Kotlin internal public val EMPTY: CharRange =
CharRange(1.toChar(), 0.toChar())
 * }
 * A range of values of type `Int`.
 * Kotlin internal public class
IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {
 * override val
start: Int get() = first
 * override val endInclusive: Int get() = last
 * override fun contains(value: Int): Boolean =
first <= value && value <= last
 * Checks whether the range is empty.
 * The range is empty
if its start value is greater than the end value.
 * override fun isEmpty(): Boolean = first > last
 * override fun equals(other: Any?): Boolean =
other is IntRange && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)
 * override fun hashCode(): Int =
if (isEmpty()) -1 else (31 * first + last)
 * override fun toString(): String =
"$first..$last"
 * companion object {
 * /** An empty range of values of type Int.
 * Kotlin internal public val
EMPTY: IntRange = IntRange(1, 0)
 * }
 * A range of values of type `Long`.
 * Kotlin internal public class
LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long> {
 * override val start: Long get() = first
 * override val endInclusive: Long get() = last
 * override fun
contains(value: Long): Boolean = first <= value && value <= last
 * Checks whether the range is

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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        /** An
empty range of values of type Long. */\n        public val EMPTY: LongRange = LongRange(1, 0)\n    }\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\n    @file:kotlin.jvm.JvmMultifileClass\n    @file:kotlin.jvm.JvmName("CollectionsKt")\n    @file:OptIn(kotlin.exper
imental.ExperimentalTypeInference::class)\n\n    package kotlin.collections\n\n    import kotlin.contracts.*\n    import
kotlin.random.Random\n\n    internal object EmptyIterator : ListIterator<Nothing> {\n        override fun hasNext():
Boolean = false\n        override fun hasPrevious(): Boolean = false\n        override fun nextIndex(): Int = 0\n        override
fun previousIndex(): Int = -1\n        override fun next(): Nothing = throw NoSuchElementException()\n        override fun
previous(): Nothing = throw NoSuchElementException()\n    }\n\n    internal object EmptyList : List<Nothing>,
Serializable, RandomAccess {\n        private const val serialVersionUID: Long = -7390468764508069838L\n\n        override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\n        override fun hashCode(): Int
= 1\n        override fun toString(): String = "[]"\n\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\n        override fun get(index:
Int): Nothing = throw IndexOutOfBoundsException("Empty list doesn't contain element at index $index.")\n\n        override fun indexOf(element: Nothing): Int = -1\n        override fun lastIndexOf(element: Nothing): Int = -1\n\n        override fun iterator(): Iterator<Nothing> = EmptyIterator\n        override fun listIterator(): ListIterator<Nothing> =
EmptyIterator\n        override fun listIterator(index: Int): ListIterator<Nothing> {\n            if (index != 0) throw
IndexOutOfBoundsException("Index: $index")\n            return EmptyIterator\n        }\n\n        override fun
subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n            if (fromIndex == 0 && toIndex == 0) return this\n            throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")\n        }\n\n        private fun
readResolve(): Any = EmptyList\n    }\n\n    internal fun <T> Array<out T>.asCollection(): Collection<T> =
ArrayAsCollection(this, isVarargs = false)\n\n    private class ArrayAsCollection<T>(val values: Array<out T>, val
isVarargs:
Boolean) : Collection<T> {\n        override val size: Int get() = values.size\n        override fun isEmpty(): Boolean =
values.isEmpty()\n        override fun contains(element: T): Boolean = values.contains(element)\n        override fun
containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }\n        override fun iterator():
Iterator<T> = values.iterator()\n        // override hidden toArray implementation to prevent copying of values array\n        public fun toArray(): Array<out Any?> = values.copyOfToArrayOfAny(isVarargs)\n    }\n\n    /**\n    * Returns an empty
read-only list. The returned list is serializable (JVM).\n    * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n    */\n    public fun <T> emptyList(): List<T> =
EmptyList\n\n    /**\n    * Returns a new read-only list of given elements. The returned list is serializable (JVM).\n    *
@sample samples.collections.Collections.Lists.readOnlyList\n    */\n    public fun <T> listOf(vararg elements: T):
List<T> = if (elements.size > 0) elements.asList()\n        else emptyList()\n\n    /**\n    * Returns an empty read-only list. The returned list is serializable (JVM).\n    * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n    */\n    @kotlin.internal.InlineOnly\n    public inline fun <T>
listOf(): List<T> = emptyList()\n\n    /**\n    * Returns an empty new [MutableList].\n    * @sample
samples.collections.Collections.Lists.emptyMutableList\n    */\n    @SinceKotlin("1.1")\n    @kotlin.internal.InlineOnly\n    public inline fun <T> mutableListOf(): MutableList<T> =
ArrayList()\n\n    /**\n    * Returns an empty new [ArrayList].\n    * @sample
samples.collections.Collections.Lists.emptyArrayList\n    */\n    @SinceKotlin("1.1")\n    @kotlin.internal.InlineOnly\n    public inline fun <T> arrayListOf(): ArrayList<T> =
ArrayList()\n\n    /**\n    * Returns a new [MutableList] with the given elements.\n    * @sample

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samples.collections.Collections.Lists.mutableList\n *\npublic fun <T> mutableListOf(vararg elements: T):
MutableList<T> =\n if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements,
isVarargs = true))\n\n/**\n * Returns a new [ArrayList] with the given elements.\n * @sample
samples.collections.Collections.Lists.arrayList\n *\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T>
=\n if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n *
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).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n *\npublic fun
<T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n *
Returns a new read-only list only of those given elements, that are not null. The returned list is serializable
(JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n *\npublic fun <T : Any>
listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()\n\n/**\n * Creates
a new read-only list with the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n * The function [init] is called for each list element sequentially starting from the first one.\n * It
should return the value for a list element given its index.\n * @sample
samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*\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\n * [init] function.\n * The function [init] is called for each list element
sequentially starting from the first one.\n * It should return the value for a list element given its index.\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]\n * and returning a read-only list with the same
elements.\n * The list 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 * The returned list is serializable (JVM).\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]\n * and returning a read-only list
with the same elements.\n * The list 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 * The returned list is
serializable (JVM).\n * [capacity] is used to hint the expected number of elements added in the
[builderAction].\n * @throws IllegalArgumentException if the given [capacity] is negative.\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 * @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 * @sample

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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 * @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 * @sample
samples.collections.Collections.Collections.collectionOrNull\n *^\\n@SinceKotlin("1.3")\\n@kotlin.internal.InlineOnly\\npublic inline fun <T> Collection<T>?.isNullOrNull():
Boolean {\\n  contract {\\n    returns(false) implies (this@isNullOrNull != 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 * @sample
samples.collections.Collections.Collections.collectionOrNull\n *^\\n@kotlin.internal.InlineOnly\\npublic inline fun
<T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()\\n\\n/**\\n * Returns this List if it's not `null` and
the empty list otherwise.\\n * @sample samples.collections.Collections.Lists.listOrNull\n *^\\n@kotlin.internal.InlineOnly\\npublic 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 if the collection is empty.\\n *\\n * @sample
samples.collections.Collections.Collections.collectionIfEmpty\n *^\\n@SinceKotlin("1.3")\\n@kotlin.internal.InlineOnly\\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =\\n  if (isEmpty()) defaultValue() else this\\n\\n/**\\n * Checks if all
elements in the specified collection are contained in this collection.\\n *\\n * Allows to overcome type-safety
restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\\n * @sample
samples.collections.Collections.Collections.collectionContainsAll\n *^\\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\\n@kotlin.internal.InlineOnly\\npublic inline fun <@kotlin.internal.OnlyInputTypes T>
Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\\n\\n/**\\n * Returns a
new list with the elements of this list randomly
shuffled\\n * using the specified [random] instance as the source of randomness.\\n
*^\\n@SinceKotlin("1.3")\\npublic fun <T> Iterable<T>.shuffled(random: Random): List<T> =
toMutableList().apply { shuffle(random) }\\n\\ninternal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\\n
  0 -> emptyList()\\n  1 -> listOf(this[0])\\n  else -> this\\n}\\n\\n/**\\n * Searches this list or its range for the provided
[element] using the binary search algorithm.\\n * The list is expected to be sorted into ascending order according to
the Comparable natural ordering of its elements,\\n * otherwise the result is undefined.\\n *\\n * If the list contains
multiple elements equal to the specified [element], there is no guarantee which one will be found.\\n *\\n * `null`
value is considered to be less than any non-null value.\\n *\\n * @return the index of the 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.binarySearchOnComparable\n * @sample
samples.collections.Collections.Lists.binarySearchWithBoundaries\n *^\\npublic fun <T : Comparable<T>>
List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\\n  rangeCheck(size, fromIndex,
toIndex)\\n\\n  var low = fromIndex\\n  var high = toIndex - 1\\n\\n  while (low <= high) {\\n    val mid = (low +
high).ushr(1) // safe from overflows\\n    val midVal = get(mid)\\n    val cmp = compareValues(midVal,
element)\\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 * Searches this list or its range
for the provided [element] using the binary search
algorithm.\\n * The list is expected to be sorted into ascending order according to the specified [comparator],\\n *
otherwise the result is undefined.\\n *\\n * If the list contains multiple elements equal to the specified [element], there
is no guarantee which one will be found.\\n *\\n * `null` value is considered to be less than any non-null value.\\n *\\n *
@return the index of the element, if it is contained in the list within the specified range;\\n * otherwise, the inverted

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insertion point ``(-insertion point - 1)``.
 * The insertion point is defined as the index at which the element should be inserted,
 * so that the list (or the specified subrange of list) still remains sorted according to the specified
 [comparator].
 * @sample samples.collections.Collections.Lists.binarySearchWithComparator
`\n * \npublic fun
<T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int
{\n rangeCheck(size, fromIndex, toIndex)\n\n var low =
fromIndex\n var high = toIndex - 1\n\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\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 * Searches this list or its range for an element having
the key returned by the specified [selector] function
* equal to the provided [key] value using the binary search
algorithm.
* The list is expected to be sorted into ascending order according to the Comparable natural ordering of
keys of its elements.
* otherwise the result is undefined.
* \n * \n * If the list contains multiple elements with the
specified [key], there is no guarantee which one will be found.
* \n * \n * `null` value is considered to be less than any
non-null value.
* \n * \n * @return the index
of the element with the specified [key], if it is contained in the list within the specified range;
* otherwise, the
inverted insertion point `(-insertion point - 1)`.
* The insertion point is defined as the index at which the element
should be inserted,
* so that the list (or the specified subrange of list) still remains sorted.
* @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) {\n
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 * \n * The list is
expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements,
* i.e. negative values come before zero and zeroes come before positive values.
* Otherwise, the result is
undefined.
* \n * \n * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee
which one will be found.
* \n * \n * @param comparison function that returns zero when called on the list element
being searched.
* On the elements coming before the target element, the function must return negative values;
* \n * \n * on the elements coming after the target element, the function must return positive values.
* \n * \n * @return the index
of the found element, if it is contained in the list within the specified range;
* otherwise, the inverted insertion
point `(-insertion point - 1)`.
* The insertion point is defined as the index
at which the element should be inserted,
* so that the list (or the specified subrange of list) still remains sorted.
* \n * \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\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
* the range of [0..size] and throws an appropriate exception, if they aren't.
* \n * \n * private 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\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun throwIndexOverflow() {\n throw
ArithmeticException("Index overflow has happened.") }\n\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun`

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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.experiment
al.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    override fun hashCode(): Int = 0\n    override fun toString(): String = "{}"\n\n    override val
size: Int get() = 0\n    override fun isEmpty(): Boolean = true\n\n    override fun containsKey(key: Any?): Boolean =
false\n    override fun containsValue(value: Nothing): Boolean = false\n    override fun get(key: Any?): Nothing? =
null\n    override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\n    override val keys: Set<Any?>
get() = EmptySet\n    override val values: Collection<Nothing> get() = EmptyList\n\n    private fun readResolve(): Any = EmptyMap\n}\n\n/**\n * Returns an empty read-only map of specified type.\n
*\n * The returned map is serializable (JVM).\n * @sample
samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\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 * The returned map is serializable (JVM).\n
*\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\n\npublic fun <K, V> mapOf(vararg pairs:
Pair<K, V>): Map<K, V> =\n    if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else
emptyMap()\n\n/**\n * Returns an empty read-only map.\n
*\n * The returned map is serializable (JVM).\n * @sample
samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
<K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns an empty new [MutableMap].\n * The returned
map preserves the entry iteration order.\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n
*/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <K, V> mutableMapOf():
MutableMap<K, V> = 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 * If multiple pairs have
the same key, the resulting map will contain the value from the last of those pairs.\n * Entries of the map are
iterated in the order they were specified.\n * @sample
samples.collections.Maps.Instantiation.mutableMapFromPairs\n * @sample
samples.collections.Maps.Instantiation.emptyMutableMap\n
*/\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 * @sample
samples.collections.Maps.Instantiation.emptyHashMap\n
*/\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <K, V> hashMapOf(): HashMap<K, V>
= 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 * @sample
samples.collections.Maps.Instantiation.hashMapFromPairs\n */\n\npublic fun <K, V> hashMapOf(vararg pairs:
Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n *
Returns an empty new [LinkedHashMap].\n * @sample samples.collections.Maps.Instantiation.linkedMapOf\n */\n\n@SinceKotlin("1.1")\n\n@kotlin.internal.InlineOnly\n\npublic inline
fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n/**\n * Returns a new
[LinkedHashMap]
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 * If multiple pairs have the same key, the resulting map will contain the value from the last of those
pairs.\n * Entries of the map are iterated in the order they were specified.\n * @sample

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samples.collections.Maps.Instantiation.linkedMapFromPairs\n */\npublic fun <K, V> linkedMapOf(vararg pairs:
Pair<K, V>): LinkedHashMap<K, V> = 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 * 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\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 * \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 * \n * [capacity] is used to hint the expected number of pairs added in the
[builderAction].\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 * @throws IllegalArgumentException if the given [capacity] is
negative.\n * \n * @sample samples.collections.Builders.Maps.buildMapSample\n
*/\n\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 * \n * internal expect fun mapCapacity(expectedSize: Int):
Int\n\n/**\n * Returns
`true` if this map is not empty.\n * \n * @sample samples.collections.Maps.Usage.mapIsNotEmpty\n
*/\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 * \n * @sample
samples.collections.Maps.Usage.mapIsNullOrEmpty\n
*/\n\n@SinceKotlin("1.3")\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\n
return this == null || isEmpty()\n}\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n
*/\n * \n * @sample samples.collections.Maps.Usage.mapOrElse\n */\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\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <M, R> M.ifEmpty(defaultValue: () ->
R): R where M : Map<*, *>, M : R =\n if (isEmpty()) defaultValue() 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\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\n * \n * public 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\n * \n * public

```

```

inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {
    put(key, value)
}

Returns `true` if the map contains the specified [key].
Allows to overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.
@kotlin.internal.InlineOnly
public inline fun
<@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =
    @Suppress("UNCHECKED_CAST") (this as Map<K, *>).containsKey(key)

Returns `true` if the map maps one or more keys to the specified [value].
Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.
@sample
samples.collections.Maps.Usage.containsValue
^
@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
// false warning, extension takes precedence in some cases
@kotlin.internal.InlineOnly
public inline fun <K,
@kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean
= this.containsValue(value)

Removes the specified key and its corresponding value from this map.
@return the previous value associated with the key, or `null` if the key was not present in the map.
Allows to overcome type-safety 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
= getOrDefault(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 {\n  return entries.associateByTo(destination, { it.key }, transform)\n}\n\n/**\n * Populates the given
[destination] map with entries having the keys obtained\n * by applying the [transform] function to each entry in this
[Map] and the values of this map.\n *\n * In case if any two entries are mapped to the equal keys, the value of the
latter one will overwrite\n * the value associated with the former one.\n */\npublic 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
{\n  return entries.associateByTo(destination, transform, { it.value })\n}\n\n/**\n * Puts all the given [pairs] into
this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K,
V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\n  for ((key, value) in
pairs) {\n    put(key, value)\n  }\n}\n\n/**\n * 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.\n */\npublic fun <K, V>
MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {\n  for ((key, value) in pairs) {\n
put(key, value)\n  }\n}\n\n/**\n * 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.\n */\npublic fun <K, V> MutableMap<in K, in
V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {\n  for ((key, value) in pairs) {\n    put(key, value)\n
}\n}\n\n/**\n * Returns a new map with entries having the keys of this map and the values obtained by applying the
[transform]\n * function to each entry in this [Map].\n *\n * The returned map preserves the entry iteration order of
the original map.\n */\n * @sample samples.collections.Maps.Transformations.mapValues\n */\npublic
inline fun <K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\n  return
mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n *
Returns a new Map with entries having the keys obtained by applying the [transform] function to each entry in this\n
* [Map] and the values of this map.\n *\n * In case if any two entries are mapped to the equal keys, the value of the
latter one will overwrite\n * the value associated with the former one.\n *\n * The returned map preserves the entry
iteration order of the original map.\n */\n * @sample samples.collections.Maps.Transformations.mapKeys\n */\npublic
inline fun <K, V, R> Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n  return
mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n *
Returns a map containing all key-value pairs with keys matching the given [predicate].\n *\n * The returned map
preserves
the entry iteration order of the original map.\n */\n * @sample samples.collections.Maps.Filtering.filterKeys\n */\npublic
inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\n  val result =
LinkedHashMap<K, V>()\n  for (entry in this) {\n    if (predicate(entry.key)) {\n      result.put(entry.key,
entry.value)\n    }\n  }\n  return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values
matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n
* @sample samples.collections.Maps.Filtering.filterValues\n */\npublic inline fun <K, V> Map<out K,
V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n  val result = LinkedHashMap<K, V>()\n  for (entry
in this) {\n    if (predicate(entry.value)) {\n      result.put(entry.key, entry.value)\n    }\n  }\n  return
result\n}\n\n/**\n * Appends all entries matching the given [predicate] into
the mutable map given as [destination] parameter.\n *\n * @return the destination map.\n */\n * @sample
samples.collections.Maps.Filtering.filterTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out
K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n  for (element in this) {\n    if
(predicate(element)) {\n      destination.put(element.key, element.value)\n    }\n  }\n  return
destination\n}\n\n/**\n * Returns a new map containing all key-value pairs matching the given [predicate].\n *\n *
The returned map preserves the entry iteration order of the original map.\n */\n * @sample
samples.collections.Maps.Filtering.filter\n */\npublic inline fun <K, V> Map<out K, V>.filter(predicate:
(Map.Entry<K, V>) -> Boolean): Map<K, V> {\n  return filterTo(LinkedHashMap<K, V>(),
predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate] into the given [destination].\n *\n *
@return the destination map.\n */\n * @sample samples.collections.Maps.Filtering.filterNotTo\n

```

```

*^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
}

* 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)
}

* 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].

```

public operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =
    LinkedHashMap(this).apply { putAll(map) }

```

- * Appends or replaces the given [pair] in this mutable map.

```

@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {
    put(pair.first, pair.second)
}

```

- * Appends or replaces all pairs from the given collection of [pairs] in this mutable map.

```

@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {
    putAll(pairs)
}

```

- * Appends or replaces all pairs from the given array of [pairs] in this mutable map.

```

@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {
    putAll(pairs)
}

```

- * Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.

```

@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {
    putAll(pairs)
}

```

- * Appends or replaces all entries from the given [map] in this mutable map.

```

@kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {
    putAll(map)
}

```

- * Returns a map containing all entries of the original map except the entry with the given [key].
- * The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =
    this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()

```

- * Returns a map containing all entries of the original map except those entries the keys of which are contained in the given [keys] collection.
- * The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =
    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()

```

- * Returns a map containing all entries of the original map except those entries the keys of which are contained in the given [keys] array.
- * The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =
    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()

```

- * Returns a map containing all entries of the original map except those entries the keys of which are contained in the given [keys] sequence.
- * The returned map preserves the entry iteration order of the original map.

```

@SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =
    this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()

```

- * Removes the entry with the given [key] from this mutable map.

```

@SinceKotlin("1.1") @kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {
    remove(key)
}

```

- * Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.

```

@SinceKotlin("1.1") @kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {
    this.keys.removeAll(keys)
}

```

- * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.

```

@SinceKotlin("1.1") @kotlin.internal.InlineOnly public inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {
    this.keys.removeAll(keys)
}

```

- * 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// 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 * 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\n  override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n
  override fun hashCode(): Int = 0\n  override fun toString(): String = "[]"\n\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/**\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/** Returns an empty new [HashSet].
*\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T>
= HashSet()\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/** Returns an
empty new [LinkedHashSet].\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 *\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 * @sample samples.collections.Builders.Sets.buildSetSample

```

*\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 {\n        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@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 {\n        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/**\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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("PLATFORM_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@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@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@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@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@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@SinceKotlin("1.1")\npublic fun String.toIntOrNull(radix: Int): Int? {\n    checkRadix(radix)\n    val length = this.length\n    if (length == 0) return null\n    val start: Int\n    val isNegative: Boolean\n    val limit:

```

```

Int\n\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\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\n val
limitForMaxRadix = (-Int.MAX_VALUE) / 36\n\n var limitBeforeMul = limitForMaxRadix\n var result = 0\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 /
radix\n\n if (result < limitBeforeMul) {\n return null\n }\n } else {\n
return null\n }\n }\n\n result *= radix\n\n if (result < limit + digit) return null\n\n result -=
digit\n }\n\n return if (isNegative) result else -result\n}\n\n**\n * Parses
the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n *^\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix =
10)\n\n**\n * Parses the string as a [Long] 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("1.1")\npublic fun String.toLongOrNull(radix: Int): Long? {\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: Long\n\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\n limit = Long.MIN_VALUE\n
} else if (firstChar == '+') {\n isNegative = false\n limit = -Long.MAX_VALUE\n } else\n
return null\n } else {\n start = 0\n isNegative = false\n limit = -Long.MAX_VALUE\n }\n\n\n val
limitForMaxRadix = (-Long.MAX_VALUE) / 36\n\n var limitBeforeMul = limitForMaxRadix\n var result =
0L\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
/ radix\n\n if (result < limitBeforeMul) {\n return null\n }\n } else {\n
return null\n }\n }\n\n result *= radix\n\n if (result < limit + digit) return null\n\n result -=
digit\n }\n\n return if (isNegative) result else -result\n}\n\n\ninternal
fun numberFormatError(input: String): Nothing = throw NumberFormatException("Invalid number format:
'$input')\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\nimport kotlin.contracts.*\nimport kotlin.jvm.JvmInline\nimport kotlin.math.*\n\n**\n * Represents the amount of time one instant of time is away from another instant.\n *^\n * A negative duration is
possible in a situation when the second instant is earlier than the first one.\n *^\n * The type can store duration values
up to \u00b1146 years with nanosecond precision,\n * and up to \u00b1146 million years with millisecond
precision.\n *^\n * If a duration-returning operation provided in `kotlin.time` produces a duration value that doesn't fit
into the above range,\n * the returned `Duration` is infinite.\n *^\n * An infinite duration value
[Duration.INFINITE] can be used to represent infinite timeouts.\n *^\n * To construct a duration use either the
extension function [toDuration],\n * or the extension properties [hours], [minutes], [seconds], and so on,\n *
available on [Int], [Long], and [Double] numeric types.\n *^\n * To get the value of this duration expressed in a
particular [duration units][DurationUnit]\n * use the functions [toInt], [toLong], and [toDouble]\n * or the properties
[inWholeHours], [inWholeMinutes], [inWholeSeconds], [inWholeNanoseconds], and so on.\n
*\n*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\n@JvmInline\npublic value class
Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {\n\n private val value: Long
get() = rawValue shr 1\n private inline val unitDiscriminator: Int get() = rawValue.toInt() and 1\n private fun
isInNanos() = unitDiscriminator == 0\n private fun isInMillis() = unitDiscriminator == 1\n private val
storageUnit get()

```

```

= if (isInNanos()) DurationUnit.NANOSECONDS else DurationUnit.MILLISECONDS\n\n init {\n    if
(durationAssertionsEnabled) {\n        if (isInNanos()) {\n            if (value !in -MAX_NANOS..MAX_NANOS)
throw AssertionError("\$value ns is out of nanoseconds range")\n        } else {\n            if (value !in -
MAX_MILLIS..MAX_MILLIS) throw AssertionError("\$value ms is out of milliseconds range")\n        } if
(value in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) throw AssertionError("\$value ms is
denormalized")\n    }\n }\n } companion object {\n    /** The duration equal to exactly 0
seconds. */\n    public val ZERO: Duration = Duration(0L)\n    /** The duration whose value is positive
infinity. It is useful for representing timeouts that should never expire. */\n    public val INFINITE: Duration =
durationOfMillis(MAX_MILLIS)\n    internal val NEG_INFINITE: Duration = durationOfMillis(-
MAX_MILLIS)\n\n    /** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified
[targetUnit]. */\n    @ExperimentalTime\n    public fun convert(value: Double, sourceUnit: DurationUnit,
targetUnit: DurationUnit): Double =\n        convertDurationUnit(value, sourceUnit, targetUnit)\n\n    //
Duration construction extension properties in Duration companion scope\n\n    /** Returns a [Duration] equal to
this [Int] number of nanoseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.nanoseconds get()
= toDuration(DurationUnit.NANOSECONDS)\n\n    /** Returns a [Duration] equal to this [Long] number of
nanoseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n    /**\n     * Returns a [Duration] equal to this [Double]
number of nanoseconds.\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.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of
microseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n    /** Returns a [Duration] equal to this [Long] number of
microseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n    /**\n     * Returns a [Duration] equal to this [Double]
number of microseconds.\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.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of
milliseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] equal to this [Long] number of
milliseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n    /**\n     * Returns a [Duration] equal to this [Double]
number of milliseconds.\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.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of seconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration] equal to
this [Long] number of seconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n    /**\n     * Returns a [Duration] equal to this [Double] number of
seconds.\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.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n    /** Returns a [Duration] equal to this [Int] number of minutes. */\n    @kotlin.internal.InlineOnly\n    public inline

```

```

val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n    /** Returns a [Duration] equal to this [Long]
number of minutes. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.minutes get() =
toDuration(DurationUnit.MINUTES)\n\n    /**\n    * Returns a [Duration] equal to this [Double] number of
minutes.\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.minutes get() =
toDuration(DurationUnit.MINUTES)\n\n\n    /** Returns a [Duration] equal to this [Int] number of hours. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n\n    /**
Returns a [Duration] equal to this [Long] number of hours. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.hours get() = toDuration(DurationUnit.HOURS)\n\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\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\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    /**\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\n\n    // deprecated static factory functions\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\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    /**\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\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\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    /**\n

```

```

    * Returns a [Duration] representing the specified [value] number of microseconds.\n
    * @throws\n
    IllegalArgumentException if the provided `Double` [value] is `NaN`.\n
    * @SinceKotlin("1.5")\n
    @ExperimentalTime\n
    @Deprecated("Use 'Double.microseconds' extension property from\n
    Duration.Companion instead.", ReplaceWith("value.microseconds",\n
    "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\n
    from Duration.Companion instead.", ReplaceWith("value.milliseconds",\n
    "kotlin.time.Duration.Companion.milliseconds"))\n
    @DeprecatedSinceKotlin(warningSince\n
    = "1.6")\n
    public fun milliseconds(value: Int): Duration =\n
    value.toDuration(DurationUnit.MILLISECONDS)\n\n
    /** Returns a [Duration] representing the specified\n
    [value] number of milliseconds. *\n
    * @SinceKotlin("1.5")\n
    @ExperimentalTime\n
    @Deprecated("Use 'Long.milliseconds' extension property from Duration.Companion\n
    instead.",\n
    ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
    @DeprecatedSinceKotlin(warningSince = "1.6")\n
    public fun milliseconds(value: Long): Duration =\n
    value.toDuration(DurationUnit.MILLISECONDS)\n\n
    /**\n
    * Returns a [Duration] representing the\n
    specified [value] number of milliseconds.\n
    * @throws IllegalArgumentException if the provided\n
    `Double` [value] is `NaN`.\n
    * @SinceKotlin("1.5")\n
    @ExperimentalTime\n
    @Deprecated("Use 'Double.milliseconds' extension property from Duration.Companion\n
    instead.",\n
    ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
    @DeprecatedSinceKotlin(warningSince = "1.6")\n
    public fun milliseconds(value: Double): Duration =\n
    value.toDuration(DurationUnit.MILLISECONDS)\n\n
    /** Returns a [Duration] representing the specified\n
    [value] number of seconds. *\n
    * @SinceKotlin("1.5")\n
    @ExperimentalTime\n
    @Deprecated("Use\n
    'Int.seconds' extension property from Duration.Companion instead.", ReplaceWith("value.seconds",\n
    "kotlin.time.Duration.Companion.seconds"))\n
    @DeprecatedSinceKotlin(warningSince = "1.6")\n
    public\n
    fun seconds(value: Int): Duration = value.toDuration(DurationUnit.SECONDS)\n\n
    /** Returns a [Duration]\n
    representing the specified [value] number of seconds. *\n
    * @SinceKotlin("1.5")\n
    @ExperimentalTime\n
    @Deprecated("Use 'Long.seconds' extension property from Duration.Companion\n
    instead.",\n
    ReplaceWith("value.seconds", "kotlin.time.Duration.Companion.seconds"))\n
    @DeprecatedSinceKotlin(warningSince = "1.6")\n
    public fun seconds(value: Long): Duration =\n
    value.toDuration(DurationUnit.SECONDS)\n\n
    /**\n
    * Returns a [Duration] representing the\n
    specified [value] number of seconds.\n
    * @throws IllegalArgumentException if the provided `Double` [value] is\n
    `NaN`.\n
    * @SinceKotlin("1.5")\n
    @ExperimentalTime\n
    @Deprecated("Use\n
    'Double.seconds' extension property from Duration.Companion instead.", ReplaceWith("value.seconds",\n
    "kotlin.time.Duration.Companion.seconds"))\n
    @DeprecatedSinceKotlin(warningSince = "1.6")\n
    public\n
    fun seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n
    /** Returns a\n
    [Duration] representing the specified [value] number of minutes. *\n
    * @SinceKotlin("1.5")\n
    @ExperimentalTime\n
    @Deprecated("Use 'Int.minutes' extension property\n
    from Duration.Companion instead.", ReplaceWith("value.minutes",\n
    "kotlin.time.Duration.Companion.minutes"))\n
    @DeprecatedSinceKotlin(warningSince = "1.6")\n
    public\n
    fun minutes(value: Int): Duration = value.toDuration(DurationUnit.MINUTES)\n\n
    /** Returns a [Duration]\n
    representing the specified [value] number of minutes. *\n
    * @SinceKotlin("1.5")\n
    @ExperimentalTime\n
    @Deprecated("Use 'Long.minutes' extension property from Duration.Companion\n
    instead.",\n
    ReplaceWith("value.minutes", "kotlin.time.Duration.Companion.minutes"))\n
    @DeprecatedSinceKotlin(warningSince = "1.6")\n
    public fun minutes(value: Long): Duration =\n
    value.toDuration(DurationUnit.MINUTES)\n\n
    /**\n
    * Returns a [Duration] representing the\n
    specified [value] number of minutes.\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\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\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    /**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\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\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    /**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    /**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    @ExperimentalTime\n    public fun parse(value:
String): Duration = try {\n        parseDuration(value, strictIso = false)\n    } catch (e:
IllegalArgumentException) {\n        throw IllegalArgumentException("Invalid duration string format: '$value'.",
e)\n    }\n\n    /**n    * Parses a string that represents a duration in ISO-8601 format and returns the parsed
[Duration] value.n    *n    * @throws IllegalArgumentException if the string doesn't represent a duration in
ISO-8601 format.n    * @sample samples.time.Durations.parseIsoString\n    */n    @ExperimentalTime\n    public fun
parseIsoString(value: String): Duration = try {\n        parseDuration(value, strictIso = true)\n    } catch (e:
IllegalArgumentException) {\n        throw IllegalArgumentException("Invalid ISO duration string format:
'$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      * 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      * \n      * public operator fun
unaryMinus(): Duration = durationOf(-value, unitDiscriminator) \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      } \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      * 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      * 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      } \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   * 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 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 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  /**\n   * Returns a duration whose value is this duration value divided
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 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  }\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  }\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  }\n  }\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)\n      // same
sign/different ranges\n      val r = this.unitDiscriminator - other.unitDiscriminator // compare ranges\n      return if
(isNegative()) -r else r\n  }\n  }\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   * \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   * \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 {
    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
    return action(inWholeDays, hoursComponent, minutesComponent,
secondsComponent, nanosecondsComponent)
}

/**
 * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.
 * The result of [action] is returned as the result of this function.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;
 * - `hours` represents the whole number of hours in this duration.
 * Infinite durations are represented as either [Long.MAX_VALUE] hours, or [Long.MIN_VALUE] hours (depending on the sign of infinity),
 * and zeroes in the lower components.
 */
public inline fun <T> toComponents(action: (hours: Long, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {
    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
    return action(inWholeHours, minutesComponent, secondsComponent, nanosecondsComponent)
}

/**
 * Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these components.
 * The result of [action] is returned as the result of this function.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * - `minutes` represents the whole number of minutes in this duration.
 * Infinite durations are represented as either [Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),
 * and zeroes in the lower components.
 */
public inline fun <T> toComponents(action: (minutes: Long, seconds: Int, nanoseconds: Int) -> T): T {
    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
    return action(inWholeMinutes, secondsComponent, nanosecondsComponent)
}

/**
 * Splits this duration into seconds, and nanoseconds and executes the given [action] with these components.
 * The result of [action] is returned as the result of this function.
 * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;
 * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;
 * Infinite durations are represented as either [Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),
 * and zero nanoseconds.
 */
public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {
    contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }
    return action(inWholeSeconds, nanosecondsComponent)
}

}

@PublishedApi
internal val hoursComponent: Int
    get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()

@PublishedApi
internal val minutesComponent: Int
    get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()

@PublishedApi
internal val secondsComponent: Int
    get() = if (isInfinite()) 0 else (inWholeSeconds % 60).toInt()

@PublishedApi
internal val nanosecondsComponent: Int
    get() = when {
        isInfinite() -> 0
        isInMillis() -> millisToNanos(value % 1_000).toInt()
        else -> (value % 1_000_000_000).toInt()
    }

// conversion to units
/**
 * Returns the value of this duration expressed as a [Double] number of the specified [unit].
 * The operation may involve rounding when the result cannot be represented exactly with a [Double] number.
 * An infinite duration value is converted either to [Double.POSITIVE_INFINITY] or [Double.NEGATIVE_INFINITY] depending on its sign.
 */
public fun toDouble(unit: DurationUnit): Double {
    return when (rawValue) {
        INFINITE.rawValue -> Double.POSITIVE_INFINITY
        NEG_INFINITE.rawValue -> Double.NEGATIVE_INFINITY
        else -> {
            // TODO: whether it's ok to convert to Double before scaling
            convertDurationUnit(value.toDouble(), storageUnit, unit)
        }
    }
}

/**
 * Returns the value of this duration expressed as a [Long] number of the specified [unit].
 * If the result doesn't fit in the range of [Long] type, it is coerced into that range:
 * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,
 * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.
 * An infinite duration value is converted either to

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[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     * 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.toLong(),
Int.MAX_VALUE.toLong()).toInt()\n    /** The value of this duration expressed as a [Double] number of days.
*/\n    @ExperimentalTime\n    @Deprecated("Use
    inWholeDays property instead or convert toDouble(DAYS) if a double value is required."),
    ReplaceWith("toDouble(DurationUnit.DAYS)")\n    public val inDays: Double get() =
    toDouble(DurationUnit.DAYS)\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    /** 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    /** 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    /** 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    /** 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    /** 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     * 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     * 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
     * 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     * 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     * The value of this duration expressed as a [Long] number of

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milliseconds.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n * public val inWholeMilliseconds: Long\n get() {\n
return if (isInMillis() && isFinite()) value else toLong(DurationUnit.MILLISECONDS)\n }\n /**\n *
The value of this
duration expressed as a [Long] number of microseconds.\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 * public
val inWholeMicroseconds: Long\n get() = toLong(DurationUnit.MICROSECONDS)\n /**\n * The value
of this duration expressed as a [Long] number of nanoseconds.\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 * public val inWholeNanoseconds: Long\n get() {\n val value = value\n
return when {\n isInNanos() -> value\n value > Long.MAX_VALUE / NANOS_IN_MILLIS ->
Long.MAX_VALUE\n value < Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE\n
else -> millisToNanos(value)\n }\n }\n // shortcuts\n /**\n * Returns the value of this
duration expressed as a [Long] number of nanoseconds.\n * 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.\n * The range of
durations that can be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n *
@ExperimentalTime\n @Deprecated("Use inWholeNanoseconds property instead.")\n
ReplaceWith("this.inWholeNanoseconds")\n public fun toLongNanoseconds(): Long =
inWholeNanoseconds\n\n
/**\n * Returns the value of this duration expressed as a [Long] number of milliseconds.\n * 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.\n
*\n * The range of durations that can be expressed as a `Long` number of milliseconds is approximately
\u00b11292 million years.\n * @ExperimentalTime\n @Deprecated("Use inWholeMilliseconds property
instead.")\n ReplaceWith("this.inWholeMilliseconds")\n public fun toLongMilliseconds(): Long =
inWholeMilliseconds\n\n
/**\n * Returns a string representation of this duration value\n * expressed as a
combination of numeric components, each in its own unit.\n * Each component is a number followed by the
unit abbreviated name: `d`, `h`, `m`, `s`:\n * `5h`, `1d 12h`, `1h 0m 30.340s`.\n * The last component, usually
seconds, can be a number with a fractional part.\n * If the duration
is less than a second, it is represented as a single number\n * with one of sub-second units: `ms` (milliseconds),
`us` (microseconds), or `ns` (nanoseconds):\n * `140.884ms`, `500us`, `24ns`.\n * A negative duration is
prefixed with `-` sign and, if it consists of multiple components, surrounded with parentheses:\n * `-12m` and
`-(1h 30m)`.\n * Special cases:\n * - an infinite duration is formatted as `"Infinity"` or `"-Infinity"`
without a unit.\n * It's recommended to use [toIsoString] that uses more strict ISO-8601 format instead of
this `toString`\n * when you want to convert a duration to a string in cases of serialization, interchange, etc.\n
*\n * @sample samples.time.Durations.toStringDefault\n * override fun toString(): String = when
(rawValue) {\n 0L -> "0s"\n INFINITE.rawValue -> "Infinity"\n NEG_INFINITE.rawValue -> "-
Infinity"\n else -> {\n val isNegative
= isNegative()\n buildString {\n if (isNegative) append('-')\n absoluteValue.toComponents
{ days, hours, minutes, seconds, nanoseconds ->\n val hasDays = days != 0L\n val hasHours
= hours != 0\n val hasMinutes = minutes != 0\n val hasSeconds = seconds != 0 ||
nanoseconds != 0\n var components = 0\n if (hasDays) {\n
append(days).append('d')\n components++\n }\n if (hasHours || (hasDays &&
(hasMinutes || hasSeconds))) {\n if (components++ > 0) append(' ')\n
append(hours).append('h')\n }\n if (hasMinutes || (hasSeconds && (hasHours || hasDays)))

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        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 < 3 -> appendRange(fracString, 0, nonZeroDigits)
            else -> appendRange(fracString, 0, ((nonZeroDigits + 2) / 3) * 3)
        }
        append(unit)
    }
}
/**
 * Returns a string representation of this duration value expressed in the given [unit] and formatted with the specified [decimals] number of digits after decimal point.
 * Special cases:
 * - an infinite duration is formatted as "Infinity" or "-Infinity" without a unit.
 * @param decimals the number of digits after decimal point to show. The value must be non-negative.
 * No more than 12 decimals will be shown, even if a larger number is requested.
 * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.
 * @throws IllegalArgumentException if [decimals] is less than zero.
 * @sample samples.time.Durations.toStringDecimals
 */
public fun toString(unit: DurationUnit, decimals: Int = 0): String {
    require(decimals >= 0) { "decimals must be not negative, but was $decimals" }
    val number = toDouble(unit)
    if (number.isInfinite()) return number.toString()
    return formatToExactDecimals(number, decimals.coerceAtMost(12)) + unit.shortName()
}
/**
 * Returns an ISO-8601 based string representation of this duration.
 * The returned value is presented in the format `PThHmMs.fS`, where `h`, `m`, `s` are the integer components of this duration (see [toComponents]) and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be formatted with either 0, 3, 6, or 9 decimal digits.
 * The infinite duration is represented as "PT999999999999999H" which is larger than any possible finite duration in Kotlin.
 * Negative durations are indicated with the sign '-' in the beginning of the returned string, for example, "-PT5M30S".
 * @sample samples.time.Durations.toIsoString
 */
public fun toIsoString(): String = buildString {
    if (isNegative()) append('-')
    append("PT")
    this@Duration.absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
        @Suppress("NAME_SHADOWING")
        var hours = hours
        if (isInfinite()) {
            // use large enough value instead of Long.MAX_VALUE
            hours = 9_999_999_999_999
        }
        val hasHours = hours != 0L
        val hasSeconds = seconds != 0 || nanoseconds != 0
        val hasMinutes = minutes != 0 || (hasSeconds && hasHours)
        if (hasHours) {
            append(hours).append('H')
        }
        if (hasMinutes) {
            append(minutes).append('M')
        }
        if (hasSeconds || (!hasHours && !hasMinutes)) {
            appendFractional(seconds, nanoseconds, 9, "S", isoZeroes = true)
        }
    }
}
// constructing from number of units
// extension functions
/**
 * Returns a [Duration] equal to this [Int] number of the specified [unit].
 */
@SinceKotlin("1.6")
@WasExperimental(ExperimentalTime::class)
public fun Int.toDuration(unit: DurationUnit): Duration {
    return if (unit <= DurationUnit.SECONDS) {
        durationOfNanos(convertDurationUnitOverflow(this.toLong(), unit, DurationUnit.NANOSECONDS))
    } else {
        toLong().toDuration(unit)
    }
}
/**
 * Returns a [Duration] equal to this [Long] number of the specified [unit].
 */
@SinceKotlin("1.6")
@WasExperimental(ExperimentalTime::class)
public fun Long.toDuration(unit:

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DurationUnit): Duration {
    val maxNsInUnit = convertDurationUnitOverflow(MAX_NANOS,
DurationUnit.NANOSECONDS, unit)
    if (this in -maxNsInUnit..maxNsInUnit) {
        return
durationOfNanos(convertDurationUnitOverflow(this, unit, DurationUnit.NANOSECONDS))
    } else {
        val
millis = convertDurationUnit(this, unit, DurationUnit.MILLISECONDS)
        return
durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))
    }
}

/** Returns a [Duration] equal
to this [Double] number of the specified [unit].
*/
* Depending on its magnitude, the value is rounded to an
integer number of nanoseconds or milliseconds.
*/
* @throws IllegalArgumentException if this `Double` value is
`NaN`.
*/
@SinceKotlin("1.6")
@WasExperimental(ExperimentalTime::class)
public fun
Double.toDuration(unit:
DurationUnit): Duration {
    val valueInNs = convertDurationUnit(this, unit, DurationUnit.NANOSECONDS)
    require(!valueInNs.isNaN()) { "Duration value cannot be NaN." }
    val nanos = valueInNs.roundToLong()
    return if (nanos in -MAX_NANOS..MAX_NANOS) {
        durationOfNanos(nanos)
    } else {
        val millis =
convertDurationUnit(this, unit, DurationUnit.MILLISECONDS).roundToLong()
        durationOfMillisNormalized(millis)
    }
}

// constructing from number of units
// deprecated extension
properties

/** Returns a [Duration] equal to this [Int] number of nanoseconds.
*/
@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use 'Int.nanoseconds' extension property from
Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public val
Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)

/** Returns a [Duration] equal to
this [Long] number of nanoseconds.
*/
@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use
'Long.nanoseconds' extension property from Duration.Companion instead.",
ReplaceWith("this.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public val
Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)

/** Returns a [Duration] equal to this
[Double] number of nanoseconds.
*/
* @throws IllegalArgumentException if this [Double] value is `NaN`.
*/
@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use 'Double.nanoseconds' extension property
from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"kotlin.time.Duration.Companion.nanoseconds"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public val
Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)

/** Returns a [Duration] equal to
this [Int] number of microseconds.
*/
@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use
'Int.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("this.microseconds",
"kotlin.time.Duration.Companion.microseconds"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public val
Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)

/** Returns a [Duration] equal to this
[Long] number of microseconds.
*/
@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use
'Long.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("this.microseconds",
"kotlin.time.Duration.Companion.microseconds"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public val
Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)

/** Returns a [Duration] equal to
this [Double] number of microseconds.
*/
* @throws IllegalArgumentException if this [Double] value is
`NaN`.
*/
@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use 'Double.microseconds' extension
property from Duration.Companion
instead.", ReplaceWith("this.microseconds",
"kotlin.time.Duration.Companion.microseconds"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public val
Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)

/** Returns a [Duration] equal to
this [Int] number of milliseconds.
*/
@SinceKotlin("1.3")
@ExperimentalTime
@Deprecated("Use
'Int.milliseconds' extension property from Duration.Companion instead.",
ReplaceWith("this.milliseconds",
"kotlin.time.Duration.Companion.milliseconds"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public val
Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)

/** Returns a [Duration] equal to this
[Long] number of milliseconds.
*/
@SinceKotlin("1.3")
@ExperimentalTime
@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 * @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/**\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/**\n * Returns a [Duration] equal
to this [Long] number of seconds. *\n * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use
'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\"),
\"kotlin.time.Duration.Companion.seconds\")\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 * @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@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 * @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@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 * @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@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 * @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@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 * @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@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 * @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@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 * @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@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 * @SinceKotlin(\"1.3\")\n * @ExperimentalTime\n * @Deprecated(\"Use 'Int.days' extension property from

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Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.days
get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of days.
*\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@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic
val Long.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Double]
number of days.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\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@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.days get() = toDuration(DurationUnit.DAYS)\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 * \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 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\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 ->\n            throw
IllegalArgumentException(\"No components\")\n        value[index] == 'P' -> {\n            if (++index == length) throw
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                    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 $component\") }\n                index++\n                val unit = durationUnitByIsoChar(unitChar, isTimeComponent)\n                if (prevUnit != null
&& prevUnit <= unit) throw IllegalArgumentException(\"Unexpected order of duration components\")\n                prevUnit = unit\n                val dotIndex = component.indexOf('.')\n                if (unit == DurationUnit.SECONDS && dotIndex > 0) {\n                    val whole =
component.substring(0, dotIndex)\n                    result += parseOverLongIsoComponent(whole).toDuration(unit)\n                    result += component.substring(dotIndex).toDouble().toDuration(unit)\n                } else {\n                    result += parseOverLongIsoComponent(component).toDuration(unit)\n                }\n            }\n            strictIso
->\n                throw IllegalArgumentException()\n            value.regionMatches(index, infinityString, 0, length =
maxOf(length - 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 (component.isEmpty()) throw IllegalArgumentException()\n                    index +=

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component.length\n        val unitName = value.substringWhile(index) { it in 'a'..'z' }\n        index +=
unitName.length\n        val unit = durationUnitByShortName(unitName)\n        if (prevUnit != null &&
prevUnit <= unit) throw IllegalArgumentException("\Unexpected order of duration components")\n
prevUnit = unit\n        val dotIndex = component.indexOf('.')\n        if (dotIndex > 0) {\n
    val whole = component.substring(0, dotIndex)\n        result += whole.toLong().toDuration(unit)\n
    result += component.substring(dotIndex).toDouble().toDuration(unit)\n        if (index < length) throw
IllegalArgumentException("Fractional component must be last")\n        } else {\n        result +=
component.toLong().toDuration(unit)\n        }\n        }\n        }\n        return if (isNegative) -result else
result\n}\n\nprivate fun parseOverLongIsoComponent(value: String): Long {\n    val length = value.length\n    var
startIndex = 0\n    if (length > 0 && value[0] in '+-') startIndex++\n    if ((length - startIndex) > 16 &&
(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// 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\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\ninternal expect val
durationAssertionsEnabled: Boolean\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@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@PublishedApi\n\ninternal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() /
v2.toLong()).toUInt()\n\n@PublishedApi\n\ninternal fun uintRemainder(v1:
UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are based on Guava's
UnsignedLongs implementation\n\n// Copyright 2011 The Guava Authors\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    // Optimization

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- 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@PublishedApi\ninternal fun ulongRemainder(v1: ULong, v2:
ULong): ULong {\n  val dividend = v1.toLong()\n  val divisor = v2.toLong()\n  if (divisor < 0)
{\n    // i.e., divisor >= 2^63:\n    return if (v1 < v2) {\n      v1 // dividend < divisor\n    } else {\n      v1 - v2
// dividend >= divisor\n    }\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@PublishedApi\ninternal fun doubleToUInt(v: Double): UInt = when {\n  v.isNaN() -> 0u\n  v <=
UInt.MIN_VALUE.toDouble() -> 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() -> 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@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and
Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n@PublishedApi\ninternal fun
ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\n\ninternal fun
ulongToString(v: Long): String = ulongToString(v, 10)\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 * 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 * 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 * 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 * 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 * 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():

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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 * 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("\SequencesKt")\n\npackage
kotlin.sequences\n\nimport kotlin.random.Random\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\n\npublic inline fun
<T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {\n    override fun
iterator(): Iterator<T> = iterator()\n}\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 */\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 *
@sample samples.collections.Sequences.Building.sequenceOfValues\n */\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 */\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\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> Sequence<T>?.orEmpty():
Sequence<T> = this ?. emptySequence()\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 * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n */\n\n@SinceKotlin("1.3")\n\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 */\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")\n\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 */\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_

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and _stateful_.\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 * @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        private fun calcNext() {\n            while (iterator.hasNext()) {\n
                val item = iterator.next()\n                if (predicate(item) == sendWhen) {\n                    nextItem = item\n
                    nextState = 1\n                    return\n                }\n            }\n            nextState = 0\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            @Suppress("UNCHECKED_CAST")\n            return result as T\n        }\n        override fun
hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext()\n            return nextState == 1\n        }\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 *\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        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n
        }\n    }\n}\n\ninternal fun <E>\nflatten(iterator: (R) -> Iterator<E>): Sequence<E> {\n    return FlatteningSequence<T, R, E>(sequence,
transformer, iterator)\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 *\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        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 * [IndexedValue] objects.\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        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 *\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 =

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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\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\n    iterator(): Iterator<E> = object : Iterator<E> {\n        val iterator = sequence.iterator()\n        var itemIterator:\n        Iterator<E>? = null\n        override fun next(): E {\n            if (!ensureItemIterator())\n                throw\n                NoSuchElementException()\n            return itemIterator!!.next()\n        }\n        override fun hasNext(): Boolean {\n            return ensureItemIterator()\n        }\n        private fun\n        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            }\n            if (nextItemIterator.hasNext())\n                itemIterator = nextItemIterator\n            return true\n        }\n    }\n}\n\ninternal fun <T, C, R> flatMapIndexed(source:\nSequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =\nsequence {\n    var\n    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 */\ninternal interface\nDropTakeSequence<T> : Sequence<T> {\n    fun drop(n: Int): Sequence<T>\n    fun take(n: Int):\n    Sequence<T>\n}\n\n/**\n * A sequence that skips [startIndex] values from the underlying [sequence]\n * and stops\n    returning values right before [endIndex], i.e. stops at `endIndex - 1`\n */\ninternal class SubSequence<T>(\n    private val sequence: Sequence<T>,\n    private val startIndex: Int,\n    private val endIndex: Int\n) : Sequence<T>,\nDropTakeSequence<T> {\n    init {\n        require(startIndex >= 0) { \"startIndex should be non-negative, but is\n        $startIndex\" }\n        require(endIndex >= 0) { \"endIndex should be non-negative, but is\n        $endIndex\" }\n        require(endIndex >= startIndex) { \"endIndex should be not less than\n        startIndex, but was $endIndex < $startIndex\" }\n    }\n    private val count: Int get() = endIndex - startIndex\n    override fun drop(n: Int): Sequence<T> = if\n    (n >= count) emptySequence() else SubSequence(sequence, startIndex + n,\n    endIndex)\n    override fun take(n: Int):\n    Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex,\n    startIndex + n)\n    override fun\n    iterator() = object : Iterator<T> {\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\n            < startIndex && iterator.hasNext())\n                iterator.next()\n            position++\n        }\n        override fun hasNext(): Boolean {\n            drop()\n            return (position < endIndex) && iterator.hasNext()\n        }\n        override fun next(): T {\n            drop()\n            if (position >= endIndex)\n                throw\n                NoSuchElementException()\n            position++\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * A sequence that returns at most [count]\n    values from the underlying [sequence], and stops returning values\n * as soon as that count is reached.\n */\ninternal\n    class TakeSequence<T>(\n    private val sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>,\nDropTakeSequence<T> {\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\n    SubSequence(sequence, n, count)\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else\n    TakeSequence(sequence, n)\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        var left =\n        count\n        val iterator = sequence.iterator()\n        override fun next(): T {\n            if (left == 0)\n                throw\n                NoSuchElementException()\n            left--\n            return iterator.next()\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\n    [predicate] function\n    returns `true`, and stops returning values once the function returns `false`\n    for the next element.\n */\ninternal\n    class TakeWhileSequence<T>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val predicate: (T) ->\n    Boolean\n) : Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator =\n        sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T?\n    }\n}

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= 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        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\n                keeping reference on yielded instance\n                nextItem = null\n                nextState = -1\n                return result\n        }\n        override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext() // will change\n                nextState\n            return nextState == 1\n        }\n    }\n\n    /**\n     * A sequence that skips the specified number of\n     * values from the underlying [sequence] and returns\n     * all values after that.\n     */\n    internal class DropSequence<T>(\n        private val sequence: Sequence<T>,\n        private val count: Int) : Sequence<T>, DropTakeSequence<T> {\n        init\n            {\n                require(count >= 0) { "\"count must be non-negative, but was $count.\" }\n            }\n        override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n        override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else\n            SubSequence(sequence, count, n1) }\n        override fun iterator(): Iterator<T> = object : Iterator<T> {\n            val\n            iterator = sequence.iterator()\n            var left = count\n            // Shouldn't be called from constructor to avoid\n            premature iteration\n            private fun drop() {\n                while (left > 0 && iterator.hasNext()) {\n                    iterator.next()\n                    left--\n                }\n            }\n            override fun next(): T {\n                drop()\n                return\n                iterator.next()\n            }\n            override fun hasNext(): Boolean {\n                drop()\n                return iterator.hasNext()\n            }\n        }\n    }\n\n    /**\n     * A sequence\n     * that skips the values from the underlying [sequence] while the given [predicate] returns `true` and returns\n     * all\n     * values after that.\n     */\n    internal class DropWhileSequence<T>(\n        private val sequence:\n        Sequence<T>,\n        private val predicate: (T) -> Boolean) : Sequence<T> {\n        override fun iterator():\n        Iterator<T> = object : Iterator<T> {\n            val iterator = sequence.iterator()\n            var dropState: Int = -1 // -1 for not\n            dropping, 1 for nextItem, 0 for normal iteration\n            var nextItem: T? = null\n            private fun drop() {\n                while (iterator.hasNext()) {\n                    val item = iterator.next()\n                    if (!predicate(item)) {\n                        nextItem = item\n                        dropState = 1\n                        return\n                    }\n                    dropState = 0\n                }\n            }\n            override fun next(): T {\n                if (dropState == -1)\n                    drop()\n                if (dropState == 1)\n                    {\n                        @Suppress("UNCHECKED_CAST")\n                            val result = nextItem as T\n                            nextItem =\n                            null\n                            dropState = 0\n                            return result\n                    }\n                return iterator.next()\n            }\n            override fun hasNext(): Boolean {\n                if (dropState == -1)\n                    drop()\n                return dropState == 1 ||\n                iterator.hasNext()\n            }\n        }\n    }\n\n    internal class DistinctSequence<T, K>(\n        private val source: Sequence<T>,\n        private val keySelector: (T) -> K) : Sequence<T> {\n        override fun iterator(): Iterator<T> =\n        DistinctIterator(source.iterator(), keySelector)\n    }\n\n    private class DistinctIterator<T, K>(\n        private val source:\n        Iterator<T>,\n        private val keySelector: (T) -> K) : AbstractIterator<T>() {\n        private val observed =\n        HashSet<K>()\n        override fun computeNext() {\n            while (source.hasNext()) {\n                val next =\n                source.next()\n                val key = keySelector(next)\n                if (observed.add(key))\n                    {\n                        setNext(next)\n                        return\n                    }\n                done()\n            }\n        }\n    }\n\n    private class\n    GeneratorSequence<T : Any>(\n        private val getInitialValue: () -> T?,\n        private val getNextValue: (T) -> T?) : Sequence<T> {\n        override fun iterator(): Iterator<T> = object : Iterator<T> {\n            var nextItem: T? = null\n            var\n            nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\n            private fun\n            calcNext() {\n                nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!)\n                nextState = if (nextItem == null) 0 else 1\n            }\n            override fun next(): T {\n                if (nextState < 0)\n                    calcNext()\n                if (nextState == 0)\n                    throw NoSuchElementException()\n                val result =\n                nextItem as T\n                // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep\n                state for\n                getNextValue\n                nextState = -1\n                return result\n            }\n            override fun hasNext(): Boolean {\n                if (nextState < 0)\n                    calcNext()\n                return nextState == 1\n            }\n        }\n    }\n\n    /**\n     * Returns a

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wrapper sequence that provides values of this sequence, but ensures it can be iterated only one time.\n *\n * The
operation is _intermediate_ and _stateless_.\n *\n * [IllegalStateException] is thrown on iterating the returned
sequence for the second time and the following times.\n *\n */\npublic fun <T> Sequence<T>.constrainOnce():
Sequence<T> {\n // as? does not work in js\n //return this as? ConstrainedOnceSequence<T> ?:\n
ConstrainedOnceSequence(this)\n return if (this is ConstrainedOnceSequence<T>) this else
ConstrainedOnceSequence(this)\n}\n\n/**\n * Returns a sequence which invokes the function to calculate the next
value on each iteration until the function returns `null`.\n *\n * The returned sequence is constrained
to be iterated only once.\n *\n * @see constrainOnce\n * @see kotlin.sequences.sequence\n *\n * @sample
samples.collections.Sequences.Building.generateSequence\n */\npublic fun <T : Any>
generateSequence(nextFunction: () -> T?): Sequence<T> {\n return GeneratorSequence(nextFunction, {
nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by the starting value [seed] and the
function [nextFunction],\n * 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 [seed] is `null`, an empty
sequence is produced.\n *\n * The sequence can be iterated multiple times, each time starting with [seed].\n *\n *
@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
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("PreconditionsKt")\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 * 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 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 */

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* @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) {\n
  \"Check failed.\" }\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  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// 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
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 * 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 * 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 * 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 * 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 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is

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out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n * \n\npublic
actual fun DoubleArray.elementAt(index:
Int): Double {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size:
$size}") }\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\npublic actual fun BooleanArray.elementAt(index: Int): Boolean {\n    return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size") }\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\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 * \n\npublic actual fun <T> Array<out T>.asList():
List<T> {\n    return ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the
original array.\n * \n\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n
return this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n    return
this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\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\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\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\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\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\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

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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("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\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 * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n\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\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 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\n*\n@SinceKotlin("1.4")\n@library("arrayDeepToString")\npublic 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 * \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\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 <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 * \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\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 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 * \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\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 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 * \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\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 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 * \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]
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*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 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 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

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on the contents of this array as if it is [List].\n *\n@Deprecated(\n"Use Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin(\n"1.1\n")\n@DeprecatedSinceKotlin(hiddenSince = \n"1.4\n")\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(\n"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin(\n"1.1\n")\n@DeprecatedSinceKotlin(hiddenSince = \n"1.4\n")\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(\n"1.4\n")\n@library(\n"arrayHashCode\n")\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(\n"1.4\n")\n@library(\n"arrayHashCode\n")\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(\n"1.4\n")\n@library(\n"arrayHashCode\n")\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(\n"1.4\n")\n@library(\n"arrayHashCode\n")\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(\n"1.4\n")\n@library(\n"arrayHashCode\n")\npublic actual
fun LongArray?.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(\n"1.4\n")\n@library(\n"arrayHashCode\n")\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 *\n@SinceKotlin(\n"1.4\n")\n@library(\n"arrayHashCode\n")\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 *\n@SinceKotlin(\n"1.4\n")\n@library(\n"arrayHashCode\n")\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
*\n@SinceKotlin(\n"1.4\n")\n@library(\n"arrayHashCode\n")\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 *\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\n"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\n")\n@SinceKotlin(\n"1.1\n")\n@DeprecatedSinceKotlin(hiddenSince = \n"1.4\n")\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 *\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\n"Use Kotlin compiler 1.4 to
avoid deprecation warning.\n")\n@SinceKotlin(\n"1.1\n")\n@DeprecatedSinceKotlin(hiddenSince
= \n"1.4\n")\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 *\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\n"Use Kotlin compiler 1.4 to
avoid deprecation warning.\n")\n@SinceKotlin(\n"1.1\n")\n@DeprecatedSinceKotlin(hiddenSince = \n"1.4\n")\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 *\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\n"Use Kotlin compiler 1.4 to
avoid deprecation warning.\n")\n@SinceKotlin(\n"1.1\n")\n@DeprecatedSinceKotlin(hiddenSince = \n"1.4\n")\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 *\n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\n"Use Kotlin compiler 1.4 to
avoid deprecation warning.\n")\n@SinceKotlin(\n"1.1\n")\n@DeprecatedSinceKotlin(hiddenSince = \n"1.4\n")\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 *\n * @sample

```

```

samples.collections.Arrays.ContentOperations.contentToString\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.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 */\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 */\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 */\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/**\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/**
    * 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 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/**
    * 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/**
    * 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 * \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\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n    arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), 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\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n    arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), 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\n*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n    arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), 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 BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n    arrayCopy(this.unsafeCast<Array<Boolean>>(),\n    destination.unsafeCast<Array<Boolean>>(), 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 CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n    arrayCopy(this.unsafeCast<Array<Char>>(),\n    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
```

```
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\n@Suppress("ACTUAL_WITHOUT_EXPECT",\n"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 samples.collections.Arrays.CopyOfOperations.copyOfOf\n
```

```
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ByteArray.copyOfOf(): ByteArray {\n    return this.asDynamic().slice()\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@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun ShortArray.copyOfOf(): ShortArray {\n    return this.asDynamic().slice()\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@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun IntArray.copyOfOf(): IntArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
```

```
*\npublic actual fun LongArray.copyOfOf(): LongArray {\n    return withType("LongArray",\n    this.asDynamic().slice())\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@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun FloatArray.copyOfOf(): FloatArray {\n    return this.asDynamic().slice()\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@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun DoubleArray.copyOfOf(): DoubleArray {\n    return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
```

```

samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\npublic actual fun BooleanArray.copyOfOf():
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 samples.collections.Arrays.CopyOfOperations.copyOfOf\n *\npublic actual
fun CharArray.copyOfOf(): 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
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
ByteArray.copyOfOf(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.copyOfOf(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.copyOfOf(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.copyOfOf(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.copyOfOf(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.copyOfOf(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

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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 `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 [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@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
*\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
IllegalArgumentException 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
*\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
*\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 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 IllegalArgumentException 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 IllegalArgumentException if [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
*\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
*\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
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 * @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 * @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@Suppress("NOTHING_TO_INLINE")\npublic
actual inline operator fun ByteArray.plus(element: 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.

```

public actual operator fun
FloatArray.plus(elements: Collection<Float>): FloatArray {
    return fillFromCollection(this.copyOf(size +
elements.size), this.size, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun DoubleArray.plus(elements:
Collection<Double>): DoubleArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size,
elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun BooleanArray.plus(elements: Collection<Boolean>):
BooleanArray {
    return arrayPlusCollection(this, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

```

public actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {
    return fillFromCollection(this.copyOf(size +
elements.size), this.size, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("ACTUAL_WITHOUT_EXPECT",
"NOTHING_TO_INLINE")
public actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>):
Array<T> {
    return this.asDynamic().concat(elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ByteArray.plus(elements:
ByteArray): ByteArray {
    return primitiveArrayConcat(this, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ShortArray.plus(elements:
ShortArray): ShortArray {
    return primitiveArrayConcat(this, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun IntArray.plus(elements: IntArray):
IntArray {
    return primitiveArrayConcat(this, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun LongArray.plus(elements:
LongArray): LongArray {
    return primitiveArrayConcat(this, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun FloatArray.plus(elements:
FloatArray): FloatArray {
    return primitiveArrayConcat(this, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun DoubleArray.plus(elements:
DoubleArray): DoubleArray {
    return primitiveArrayConcat(this, elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun
BooleanArray.plus(elements: BooleanArray): BooleanArray {
    return primitiveArrayConcat(this,
elements)
}

```

* Returns an array containing all elements of the original array and then all elements of the given [elements] array.

```

@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun
CharArray.plus(elements: CharArray): CharArray {
    return primitiveArrayConcat(this, elements)
}

```

* Returns an array containing all elements of the original array and then the given [element].

```

@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")
public actual inline fun <T>
Array<out T>.plusElement(element: T): Array<T> {
    return
this.asDynamic().concat(arrayOf(element))
}

```

* Sorts the array in-place.

```

@sample
samples.collections.Arrays.Sorting.sortArray

```

```

@library("primitiveArraySort")
public actual fun
IntArray.sort(): Unit {
    definedExternally
}

```

* Sorts the array in-place.

```

@sample
samples.collections.Arrays.Sorting.sortArray

```

```

public actual fun
LongArray.sort(): Unit {
    @Suppress("DEPRECATION")
    if (size > 1) sort { a: Long, b: Long ->
a.compareTo(b) }
}

```

* Sorts the array in-place.

```

@sample
samples.collections.Arrays.Sorting.sortArray

```

```

@library("primitiveArraySort")
public actual fun

```

```

ByteArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 *
 * @sample
 * samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun
ShortArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 *
 * @sample
 * samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun
DoubleArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 *
 * @sample
 * samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public
actual fun
FloatArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place.
 *
 * @sample
 * samples.collections.Arrays.Sorting.sortArray
 */
@library("primitiveArraySort")
public actual fun
CharArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place according to the natural order
 * of its elements.
 *
 * The sort is _stable_. It means that equal elements preserve their order relative to each other
 * after sorting.
 *
 * @sample
 * samples.collections.Arrays.Sorting.sortArrayOfComparable
 */
public actual fun
<T : Comparable<T>> Array<out T>.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * Sorts the array in-
 * place according to the order specified by the given [comparison] function.
 *
 * 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)
}

/**
 * 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].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\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@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
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@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@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@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@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@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 * 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\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@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@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/**\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\npublic inline
fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> 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@Deprecated("Use other sorting functions from the Standard
Library")\n@DeprecatedSinceKotlin(warningSince = "1.6")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n
  asDynamic().sort(comparison)\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 */\npublic 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")\npublic
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
*/\npublic 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 */\npublic 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 */\npublic actual fun IntArray.toTypedArray():
Array<Int> {\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 */\npublic 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 */\npublic 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 */\npublic 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 */\npublic 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 */\npublic actual fun

```

```

CharArray.toArray(): Array<Char> {
    return Array(size) { index -> this[index] }
}

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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.

@file:kotlin.jvm.JvmName("ComparisonsKt")
@file:kotlin.jvm.JvmMultifileClass
package
kotlin.comparisons

Compares
two values using the specified functions [selectors] to calculate the result of the comparison.
The functions are
called sequentially, receive the given values [a] and [b] and return [Comparable]
objects. As soon as the
[Comparable] instances returned by a function for [a] and [b] values do not
compare as equal, the result of that
comparison is returned.

@sample samples.comparisons.Comparisons.compareValuesByWithSelectors

public fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {
    require(selectors.size > 0)
    return compareValuesByImpl(a, b, selectors)
}

private fun <T>
compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?): Int {
    for (fn in selectors) {
        val v1 = fn(a)
        val v2 = fn(b)
        val diff = compareValues(v1, v2)
        if (diff != 0) return diff
    }
    return 0
}

Compares two values using the specified [selector] function to calculate the
result of the comparison.
The function is applied to the given values [a] and [b] and return [Comparable]
objects.
The result of comparison of these [Comparable] instances is returned.

@sample
samples.comparisons.Comparisons.compareValuesByWithSingleSelector

@kotlin.internal.InlineOnly
public
inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {
    return
compareValues(selector(a), selector(b))
}

Compares two values using the specified [selector] function to
calculate the result of the comparison.
The function is applied to the given values [a] and [b] and return objects
of type K which are then being
compared with the given [comparator].

@sample
samples.comparisons.Comparisons.compareValuesByWithComparator

@kotlin.internal.InlineOnly
public
inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {
    return
comparator.compare(selector(a), selector(b))
}

Not so useful without type inference for receiver of expression
compareValuesWith(v1, v2, compareBy {
    it.prop1 } thenByDescending { it.prop2 })

Compares two values using the specified [comparator].

@Suppress("NOTHING_TO_INLINE")
public inline fun <T> compareValuesWith(a: T, b: T, comparator:
Comparator<T>): Int = comparator.compare(a, b)

Compares two nullable [Comparable] values. Null
is considered less than any value.

@sample samples.comparisons.Comparisons.compareValues

public fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {
    if (a === b) return 0
    if (a == null) return -1
    if (b == null) return 1
    @Suppress("UNCHECKED_CAST")
    return (a as
Comparable<Any>).compareTo(b)
}

Creates a comparator using the sequence of functions to calculate a
result of comparison.
The functions are called sequentially, receive the given values `a` and `b` and return
[Comparable]
objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not
compare as
equal, the result of that comparison is returned from the [Comparator].

@sample
samples.comparisons.Comparisons.compareByWithSelectors

public fun <T> compareBy(vararg selectors: (T)
-> Comparable<*>?): Comparator<T> {
    require(selectors.size > 0)
    return Comparator { a, b ->
compareValuesByImpl(a, b, selectors) }
}

Creates a comparator using the function to transform value
to a [Comparable] instance for comparison.

@sample
samples.comparisons.Comparisons.compareByWithSingleSelector

@kotlin.internal.InlineOnly
public inline
fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
Comparator { a, b ->
compareValuesBy(a, b, selector) }

Creates a comparator using the [selector] function to transform values
being compared and then applying
the specified [comparator] to compare transformed
values.

@sample samples.comparisons.Comparisons.compareByWithComparator

@kotlin.internal.InlineOnly
public inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline
selector: (T) -> K): Comparator<T> =
Comparator { a, b -> compareValuesBy(a, b, comparator, selector)
}

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 [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 { 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)
    if (previousCompare != 0) previousCompare
else comparator.compare(b, a)
}

// Not so useful without type inference for receiver of expression
// Extends the given [comparator] of non-nullable values to a comparator of nullable values
// considering `null` value less than any other value.
@sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator

public fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> =
    Comparator { a, b ->
        when {
            a == b -> 0
            a == null -> -1
            b == null -> 1
            else -> comparator.compare(a, b)
        }
    }

// Provides a comparator of nullable [Comparable] values
// considering `null` value less than any other value.
@sample samples.comparisons.Comparisons.nullsFirstLastComparator

@kotlin.internal.InlineOnly
public inline fun <T : Comparable<T>> nullsFirst():
    Comparator<T?> = nullsFirst(naturalOrder())

// Extends the given [comparator] of non-nullable values to a
// comparator of nullable values
// considering `null` value greater than any other value.
@sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator

public fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =
    Comparator { a, b ->
        when {
            a == b -> 0
            a == null -> 1
            b == null -> -1
            else -> comparator.compare(a, b)
        }
    }

// Provides a comparator of nullable [Comparable] values
// considering `null` value greater than any other value.
@sample samples.comparisons.Comparisons.nullsFirstLastComparator

@kotlin.internal.InlineOnly
public inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> =
    nullsLast(naturalOrder())

// Returns a comparator that compares [Comparable] objects in natural order.
@sample samples.comparisons.Comparisons.naturalOrderComparator

public fun <T : Comparable<T>> naturalOrder(): Comparator<T> =
    @Suppress("UNCHECKED_CAST")
    (NaturalOrderComparator as Comparator<T>)

// Returns a comparator that compares [Comparable] objects
// in reversed natural order.
@sample samples.comparisons.Comparisons.nullsFirstLastWithComparator

public fun <T : Comparable<T>> reverseOrder(): Comparator<T> =
    @Suppress("UNCHECKED_CAST")
    (ReverseOrderComparator as Comparator<T>)

// Returns a comparator that imposes the reverse ordering
// of this comparator.
@sample samples.comparisons.Comparisons.reversed

@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
public fun <T> Comparator<T>.reversed():
    Comparator<T> = when (this) {
        is ReversedComparator -> this.comparator
        NaturalOrderComparator ->
            @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as Comparator<T>)
        ReverseOrderComparator ->
            @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
            Comparator<T>)
    }

    else -> ReversedComparator(this)
}

private class ReversedComparator<T>(public val comparator:
    Comparator<T>) : Comparator<T> {
    override fun compare(a: T, b: T): Int = comparator.compare(b, a)
}

@Suppress("VIRTUAL_MEMBER_HIDDEN")
fun reversed(): Comparator<T> = comparator

private object NaturalOrderComparator : Comparator<Comparable<Any>> {
    override fun compare(a:
    Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)
}

@Suppress("VIRTUAL_MEMBER_HIDDEN")
fun reversed(): Comparator<Comparable<Any>> =
    ReverseOrderComparator

private object ReverseOrderComparator : Comparator<Comparable<Any>> {
    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)
}

@Suppress("VIRTUAL_MEMBER_HIDDEN")
fun reversed(): Comparator<Comparable<Any>> =
    NaturalOrderComparator
}

"/>

```

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```

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StandardKt")
package kotlin

import kotlin.contracts.*

// An exception is thrown to indicate that a method body remains to be implemented.
public class NotImplementedError(message: String = "An operation is not implemented.") :
    Error(message)

// Always throws [NotImplementedError] stating that operation is not implemented.
@kotlin.internal.InlineOnly
public inline fun TODO(): Nothing = throw NotImplementedError()

```

Always throws [NotImplementedError] stating that operation is not implemented.

```

 * @param reason a string explaining why the implementation is missing.
 */
@kotlin.internal.InlineOnly
public inline fun TODO(reason: String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")
 * Calls the specified function [block] and returns its result.

 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).

 @kotlin.internal.InlineOnly
public inline fun <R> run(block: () -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}
 * Calls the specified function [block] with `this` value as its receiver and returns its result.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).

 @kotlin.internal.InlineOnly
public inline fun <T, R> T.run(block: T.() -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block()
}
 * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).

 @kotlin.internal.InlineOnly
public inline fun <T, R> with(receiver: T, block: T.() -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return receiver.block()
}
 * Calls the specified function [block] with `this` value as its receiver and returns `this` value.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).

 @kotlin.internal.InlineOnly
public inline fun <T> T.apply(block: T.() -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block()
    return this
}
 * Calls the specified function [block] with `this` value as its argument and returns `this` value.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).

 @kotlin.internal.InlineOnly
 @SinceKotlin("1.1")
public inline fun <T> T.also(block: (T) -> Unit): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    block(this)
    return this
}
 * Calls the specified function [block] with `this` value as its argument and returns its result.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).

 @kotlin.internal.InlineOnly
public inline fun <T, R> T.let(block: (T) -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return block(this)
}
 * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).

 @kotlin.internal.InlineOnly
 @SinceKotlin("1.1")
public inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (predicate(this)) this else null
}
 * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.
 * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).

 @kotlin.internal.InlineOnly
 @SinceKotlin("1.1")
public inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    }
    return if (!predicate(this)) this else null
}
 * Executes the given function [action] specified number of [times].
 * A zero-based index of current iteration is passed as a parameter to [action].
 * @sample samples.misc.ControlFlow.repeat

 @kotlin.internal.InlineOnly
public inline fun repeat(times: Int, action: (Int) -> Unit) {
    contract {
        callsInPlace(action)
    }
    for (index in 0 until times) {
        action(index)
    }
}

```

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```

 * @package kotlin.comparisons
 * NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
 * See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
 * @nimport
  
```

```

kotlin.js.*\n\n/**\n * Returns the greater of two values.\n * \n * If values are equal, returns the first one.\n *\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n    return if (a >= b) a\n    else b\n}\n\n/**\n * Returns the greater of two values.\n *\n@SinceKotlin("1.1")\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@SinceKotlin("1.1")\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@SinceKotlin("1.1")\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@SinceKotlin("1.1")\n@Suppress("NOTHING_TO_INLINE")\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 * \n * If either value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\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 * \n * If either value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Double, b: Double): Double {\n    return JsMath.max(a, b)\n}\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 actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\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/**\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/**\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/**\n * Returns the greater of three values.\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/**\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 actual inline fun maxOf(a: Float, b: Float, c: Float): Float {\n    return JsMath.max(a, b, c)\n}\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 actual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n    return JsMath.max(a, b, c)\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 actual fun <T : Comparable<T>>\n    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/**\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/**\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/**\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/**\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/**\n * Returns the greater of the given values.\n * \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/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\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/**\n * Returns the smaller of two values.\n * \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 {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte): Byte {
    return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Short, b: Short): Short {
    return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Int, b: Int): Int {
    return JsMath.min(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")@Suppress("NOTHING_TO_INLINE")
public actual inline fun minOf(a: Long, b: Long): Long {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 *
 * If either value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Float, b: Float): Float {
    return JsMath.min(a, b)
}

/**
 * Returns the smaller of two values.
 *
 * If either value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Double, b: Double): Double {
    return JsMath.min(a, b)
}

/**
 * Returns the smaller of three values.
 *
 * If there are multiple equal minimal values, returns the first of them.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
    return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Short, b: Short, c: Short): Short {
    return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Int, b: Int, c: Int): Int {
    return JsMath.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 *
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Long, b: Long, c: Long): Long {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 *
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Float, b: Float, c: Float): Float {
    return JsMath.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 *
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.1")@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Double, b: Double, c: Double): Double {
    return JsMath.min(a, b, c)
}

/**
 * Returns the smaller of the given values.
 *
 * If there are multiple equal minimal values, returns the first of them.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Byte, vararg other: Byte): Byte {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Short, vararg other: Short): Short {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Int, vararg other: Int): Int {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Long, vararg other: Long): Long {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 *
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Float, vararg other: Float): Float {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}

/**
 * Returns the smaller of the given values.
 *
 * If any value is `NaN`, returns `NaN`.
 */
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public actual fun minOf(a: Double, vararg other: Double): Double {
    var min = a
    for (e in other) min = minOf(min, e)
    return min
}
}

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*/
// Auto-generated file. DO NOT EDIT!
package kotlin
import kotlin.experimental.*
import

```



```

kotlin.jvm.*\n\n@SinceKotlin("1.5")\n\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\n@JvmInline\n\npublic value class ULong @PublishedApi

internal constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\n\n    companion object {\n\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    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    public override inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\n\n    /**\n     * Subtracts the other value from this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())\n\n    /**\n     * Subtracts the other value from this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n\n    /**\n     * Subtracts the other value from this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\n\n    /**\n     * Subtracts the other value from this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n    /**\n     * Multiplies this value by the other value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte): ULong = this.times(other.toULong())\n\n    /**\n     * Multiplies this value by the other value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UShort): ULong = this.times(other.toULong())\n\n    /**\n     * Multiplies this value by the other value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n\n    /**\n     * Multiplies this value by the other value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\n\n    /**\n     * Divides this value by the other value, truncating the result to an integer that is closer to zero.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\n\n    /**\n     * Divides this value by the other value, truncating the result to an integer that is closer to zero.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UShort): ULong = this.div(other.toULong())\n\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 /** 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 * 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 * 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 * 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 = ulongRemainder(this, 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: UByte): ULong = this.floorDiv(other.toULong())\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 * 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 * 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 * 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 * 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 * 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 * \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 * 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 * 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 * 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 /** Creates a range from  
this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun  
rangeTo(other: ULong): ULongRange = ULongRange(this, other)\n /**\n * Shifts this value left by the
```

```

[bitCount] number of bits.\n * Note that only the six lowest-order bits of the [bitCount] are used as the shift
distance.\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 * 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 * 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 /**
Performs a bitwise AND operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline
infix fun and(other: ULong): ULong = ULong(this.data and other.data)\n /** Performs a bitwise OR operation
between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: ULong): ULong =
ULong(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: ULong): ULong = ULong(this.data xor
other.data)\n /** Inverts the bits in this value. *\n @kotlin.internal.InlineOnly\n public inline fun inv():
ULong = ULong(data.inv())\n\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 /**\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 /**\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, the one with zero at least significant bit of mantissa is selected.

```
@kotlin.internal.InlineOnly
public inline fun toDouble(): Double = ulongToDouble(data)
public override fun toString(): String = ulongToString(data)
```

Converts this [Byte] value to [ULong]. If this value is positive, the resulting `ULong` value represents the same numerical value as this `Byte`. The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value, whereas the most significant 56 bits are filled with the sign bit of this value.

```
@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun Byte.toULong(): ULong = ULong(this.toLong())
```

Converts this [Short] value to [ULong]. If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`. The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value, whereas the most significant 48 bits are filled with the sign bit of this value.

```
@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun Short.toULong(): ULong = ULong(this.toLong())
```

Converts this [Int] value to [ULong]. If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`. The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value, whereas the most significant 32 bits are filled with the sign bit of this value.

```
@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun Int.toULong(): ULong = ULong(this.toLong())
```

Converts this [Long] value to [ULong]. If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`. The resulting `ULong` value has the same binary representation as this `Long` value.

```
@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun Long.toULong(): ULong = ULong(this)
```

Converts this [Float] value to [ULong]. The fractional part, if any, is rounded down towards zero. Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.

```
@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())
```

Converts this [Double] value to [ULong]. The fractional part, if any, is rounded down towards zero. Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.

```
@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun Double.toULong(): ULong = doubleToULong(this)
```

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```
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")
package kotlin.collections
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed
```

Returns 1st element from the list. Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.

```
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component1(): T {
    return get(0)
}
```

Returns 2nd element from the list. Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.

```
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component2(): T {
    return get(1)
}
```

Returns 3rd element from the list. Throws an [IndexOutOfBoundsException] if the size of this list is less than 3.

```
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component3(): T {
    return get(2)
}
```

Returns 4th element from the list. Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.

```
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component4(): T {
    return get(3)
}
```

Returns 5th element from the list. 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\n * \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 * \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
* \n\n * @sample samples.collections.Collections.Elements.elementAt\n * \n\n@kotlin.internal.InlineOnly\npublic
inline fun <T> List<T>.elementAt(index: Int): T {\n    return 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
* \n\n * @sample samples.collections.Collections.Elements.elementAtOrElse\n * \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 * \n\n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n * \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 * \n\n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n * \n\npublic fun <T>
Iterable<T>.elementAtOrNull(index: Int): T? {\n    if (this
is List)\n        return this.getOrNull(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 * \n\n * @sample samples.collections.Collections.Elements.elementAtOrNull\n\n * \n\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrNull(index: Int): T? {\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 * \n\n * @sample samples.collections.Collections.Elements.find\n\n * \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 * \n\n * @sample samples.collections.Collections.Elements.find\n\n * \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 * \n\n * @sample samples.collections.Collections.Elements.find\n\n * \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\n * @throws [NoSuchElementException] if the collection
is empty.\n\n * \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\n * @throws [NoSuchElementException] if the list is empty.\n\n * \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\n * @throws
[NoSuchElementException] if no such element is found.\n\n * \n\npublic inline fun <T> Iterable<T>.first(predicate: (T)

```

```

-> Boolean): T {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Collection contains no element matching the predicate.")
}

/** Returns the first non-null value produced by [transform] function being applied to elements of this collection in iteration order,
 * or throws [NoSuchElementException] if no non-null value was produced.
 */
@sample samples.collections.Collections.Transformations.firstNotNullOf

/** @SinceKotlin("1.5")
 * @kotlin.internal.InlineOnly
 * public inline fun <T, R : Any>
 * Iterable<T>.firstNotNullOf(transform:
 * (T) -> R?): R {
 *     return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the
 * collection was transformed to a non-null value.")
 * }

/** Returns the first non-null value produced by
 * [transform] function being applied to elements of this collection in iteration order,
 * or `null` if no non-null value
 * was produced.
 */
@sample samples.collections.Collections.Transformations.firstNotNullOf

/** @SinceKotlin("1.5")
 * @kotlin.internal.InlineOnly
 * public inline fun <T, R : Any>
 * Iterable<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {
    for (element in this) {
        val result =
        transform(element)
        if (result != null) {
            return result
        }
    }
    return null
}

/** Returns the first element, or `null` if the collection is empty.
 */
public fun <T> Iterable<T>.firstOrNull(): T? {
    when (this) {
        is List -> {
            if (isEmpty())
                return null
            else
                return this[0]
        }
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
                return null
            return iterator.next()
        }
    }
}

/** Returns the first element, or `null` if the list is empty.
 */
public fun <T> List<T>.firstOrNull(): T? {
    return if (isEmpty())
        null else this[0]
}

/** Returns the first element matching the given [predicate], or `null` if element was not
 * found.
 */
public inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in
    if (predicate(element)) return element
    return null
}

/** 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.
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>.getOrNull(index: Int, defaultValue: (Int) -> T): T? {
    return if (index >= 0 && index
    <= lastIndex) get(index) else defaultValue(index)
}

/** Returns an element at the given [index] or `null` if
 * the [index] is out of bounds of this list.
 */
@sample samples.collections.Collections.Elements.getOrNull

/**
 * public fun <T> List<T>.getOrNull(index: Int): T? {
 *     return if (index >= 0 && index <= lastIndex) get(index)
 *     else null
 * }

/** Returns first index of [element], or -1 if the collection does not contain element.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {
    if (this is List) return
    this.indexOf(element)
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element
        == item)
            return index
        index++
    }
    return -1
}

/** Returns first 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>.indexOf(element: T): Int {
 *     return indexOf(element)
 * }

/** Returns index of the first element
 * matching the given [predicate], or -1 if the collection does not contain such element.
 */
public inline fun <T>
 * Iterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
 *     var index = 0
 *     for (item in this) {
 *         checkIndexOverflow(index)
 *         if (predicate(item))
 *             return index
 *         index++
 *     }
 *     return -1
 * }

/** Returns index of the first element matching the given [predicate], or -1 if the list does not contain
 * such element.
 */
public inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        if (predicate(item))
            return index
        index++
    }
    return -1
}

/** Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such
 * element.
 */
public inline fun
 * <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {
 *     var lastIndex = -1
 *     var index = 0
 *     for (item
 * in this) {
 *         checkIndexOverflow(index)
 *         if (predicate(item))
 *             lastIndex = index
 *         index++
 *     }
 *     return lastIndex
 * }

/** Returns index of the last element matching the given [predicate], or -1 if the list
 * does not contain such element.
 */
public inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    val iterator = this.listIterator(size)
    while (iterator.hasPrevious()) {
        if (predicate(iterator.previous())) {

```

```

return iterator.nextIndex()\n    }\n    }\n    return -1\n}\n\n/**\n * Returns the last element.\n * \n * @throws\n NoSuchElementException if the collection is empty.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T {\n    when (this) {\n        is\n List -> return this.last()\n        else -> {\n            val iterator\n = 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\n last\n        }\n    }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the list is\n empty.\n * \n * @sample\n 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\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such\n element is found.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic inline fun <T>\n 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)) {\n            last = element\n            found = true\n        }\n    if (!found) throw\n NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\n return last as T\n}\n\n/**\n * Returns the last element matching the\n given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T\n {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("List contains no element\n matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain\n element.\n * \n * @kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n    if\n (this is List) return this.lastIndexOf(element)\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element\n == item)\n            lastIndex = index\n            index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns last index of\n [element], or -1 if the list does not contain element.\n */\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in\n some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n    return\n lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n    when (this)\n {\n        is List -> return if (isEmpty()) null else this[size - 1]\n        else -> {\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\n/**\n * Returns the last element, or `null` if the list is empty.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.lastOrNull(): T? {\n    return if\n (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if\n no such element was found.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic inline fun\n <T> Iterable<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 last element\n matching the given [predicate], or `null` if no such element was found.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T)\n -> Boolean): T? {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element =\n iterator.previous()\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random\n element from this collection.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of\n randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n\n@SinceKotlin("1.3")\npublic fun <T> Collection<T>.random(random: Random): T {\n    if (isEmpty())\n
```

```

throw NoSuchElementException("Collection is empty.")\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this collection, or `null` if this collection is empty.\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n    inline fun <T> Collection<T>.randomOrNull(): T? {\n        return randomOrNull(Random)\n    }\n\n/**\n * Returns a random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>\n    Collection<T>.randomOrNull(random: Random): T? {\n        if (isEmpty())\n            return null\n        return\n            elementAt(random.nextInt(size))\n    }\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n *\n */\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -> return this.single()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException("Collection is empty.")\n            val single = iterator.next()\n            if (iterator.hasNext())\n                throw IllegalArgumentException("Collection 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 *\n */\npublic fun <T> List<T>.single(): T {\n    return when (size) {\n        0 -> throw\n            NoSuchElementException("List is empty.")\n        1 -> this[0]\n        else -> throw\n            IllegalArgumentException("List has more than one element.")\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 *\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\n                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    @Suppress("UNCHECKED_CAST")\n    return single as T\n}\n\n/**\n * Returns single element, or `null` if the collection is empty or has more than one element.\n *\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 =\n                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 * Returns single element, or `null` if the list is empty or has more than one element.\n *\n */\npublic fun <T> List<T>.singleOrNull(): T? {\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 */\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 * Returns a list containing all elements except first [n] elements.\n *\n */\n@throws IllegalArgumentException if [n] is negative.\n * @sample\n    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>\n    if (this is Collection<*>) {\n        val resultSize = size - n\n        if (resultSize <= 0)\n            return\n                emptyList()\n        if (resultSize == 1)\n            return\n                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 * Returns a list containing all elements except last [n] elements.\n *\n */\n@throws IllegalArgumentException if [n] is negative.\n * @sample\n    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 * 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 * 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 * 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 * 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 <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 * \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 * \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 * \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 * \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 * @sample samples.collections.Collections.Filtering.filterNotNull\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 * \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 * 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>> Iterable<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 * @sample

```

```

samples.collections.Collections.Filtering.filterTo\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 *^\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 *^\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 *^\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 *^\npublic fun <T> List<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(last())\n  val list = ArrayList<T>(n)\n  if (this is
RandomAccess) {\n    for (index in size - n until size)\n      list.add(this[index])\n  } else {\n    for (item in
listIterator(size - n))\n      list.add(item)\n  }\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> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n  if (isEmpty())\n    return
emptyList()\n  val iterator = listIterator(size)\n  while (iterator.hasPrevious()) {\n    if
(!predicate(iterator.previous())) {\n      iterator.next()\n      val expectedSize = size - iterator.nextIndex()\n
if (expectedSize == 0) return emptyList()\n      return ArrayList<T>(expectedSize).apply {\n        while
(iterator.hasNext())\n          add(iterator.next())\n        }\n      }\n    }\n  }\n  return toList()\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *^\npublic inline fun <T> Iterable<T>.takeWhile(predicate:
(T) -> Boolean): List<T> {\n  val list = ArrayList<T>()\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 list in-place.\n *^\npublic fun <T> MutableList<T>.reverse(): Unit\n\n/**\n *
Returns a list with elements in reversed order.\n *^\npublic fun <T> Iterable<T>.reversed(): List<T> {\n  if (this is
Collection && size <= 1) return toList()\n  val list = toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n *
Randomly shuffles elements in this list 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(\"1.3\")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n  for (i in lastIndex
downTo 1) {\n    val j = random.nextInt(i + 1)\n    this[j] = this.set(i, this[j])\n  }\n}\n\n/**\n * Sorts elements
in the list in-place 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 *^\npublic inline fun <T, R : Comparable<R>>
MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n  if (size > 1)
sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place 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 *^\npublic inline fun <T, R : Comparable<R>>
MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n  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 (toArray<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> {
    return sortedWith(reverseOrder())
}

```

Returns a list of all elements sorted according to the specified `[comparator]`. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {
    if (this is Collection) {
        if (size <= 1) return this.toList()
        @Suppress("UNCHECKED_CAST")
        return (toArray<Any?>() as Array<T>).apply {
            sortWith(comparator)
        }.asList()
    }
    return toMutableList().apply { sortWith(comparator) }
}

```

Returns an array of Boolean containing all of the elements of this collection.

```

public fun Collection<Boolean>.toBooleanArray(): BooleanArray {
    val result = BooleanArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Byte containing all of the elements of this collection.

```

public fun Collection<Byte>.toByteArray(): ByteArray {
    val result = ByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Char containing all of the elements of this collection.

```

public fun Collection<Char>.toCharArray(): CharArray {
    val result = CharArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Double containing all of the elements of this collection.

```

public fun Collection<Double>.toDoubleArray(): DoubleArray {
    val result = DoubleArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Float containing all of the elements of this collection.

```

public fun Collection<Float>.toFloatArray(): FloatArray {
    val result = FloatArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Int containing all of the elements of this collection.

```

public fun Collection<Int>.toIntArray(): IntArray {
    val result = IntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Long containing all of the elements of this collection.

```

public fun Collection<Long>.toLongArray(): LongArray {
    val result = LongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns an array of Short containing all of the elements of this collection.

```

public fun Collection<Short>.toShortArray(): ShortArray {
    val result = ShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

```

Returns a `[Map]` containing key-value pairs provided by `[transform]` function applied to elements of the given collection. If any of two pairs would

have the same key 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.associate`

```

public inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

```

Returns a [Map] containing the elements from the given collection indexed by the key returned from [keySelector] function applied to each element.

If any two elements would have the same key returned by [keySelector] 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.associateBy`

```

public inline fun <T, K> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)
}

```

Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions 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.

The returned map preserves the entry iteration order of the original collection.

`@sample samples.collections.Collections.Transformations.associateByWithValueTransform`

```

public inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}

```

Populates and returns the [destination] mutable map with 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.\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("1.3")\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Iterable<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 */\npublic fun <T, C : MutableCollection<in T>>
Iterable<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 */\npublic fun <T> Iterable<T>.toHashSet():
HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n *
Returns a [List] containing all elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n if (this is
Collection) {\n return when (size) {\n 0 -> emptyList()\n 1 -> listOf(if (this is List) get(0) else
iterator().next())\n else -> this.toMutableList()\n }\n }\n return
this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of
this
collection.\n */\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n if (this is Collection<T>)\n
return this.toMutableList()\n return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a new [MutableList] filled
with all elements of this collection.\n */\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n
return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element
iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n if (this is
Collection) {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(if (this is List) this[0] else
iterator().next())\n else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n }\n return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\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
*/\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\npubli
c 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\npubli

```

```

c 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\n pu
blic

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
*\n public 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")\n public 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
*\n public 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
*\n public 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
*\n public 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
*\n public 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 * \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
\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, C : MutableCollection<in R>>
Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed {
index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original collection\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 <T, R, C : MutableCollection<in R>>
Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in
this)\n destination.add(transform(checkIndexOverflow(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 collection.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n *\npublic
inline fun <T, R : Any> Iterable<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 collection\n * and appends only the non-null results to the given [destination].\n *\npublic inline fun
<T, R
: Any, C : MutableCollection<in R>> Iterable<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 collection\n * and appends the results to the given
[destination].\n *\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<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 * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an
[IndexValue] containing the index of that element and the element itself.\n *\npublic fun <T>
Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns a list containing only distinct elements from the given collection.\n * \n * Among equal elements of the
given collection,

```

only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample

```
samples.collections.Collections.Transformations.distinctAndDistinctBy
```

\n * \npublic fun <T> Iterable<T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given collection\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given collection with equal keys, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample

```
samples.collections.Collections.Transformations.distinctAndDistinctBy
```

\n * \npublic inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\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 * Returns a set containing all elements that are contained by both this collection and the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n * \npublic infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this collection and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * \npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * \npublic fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {\n return when (this) {\n is Collection<T> -> LinkedHashSet(this)\n else -> toCollection(LinkedHashSet<T>())\n }\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 collection.\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 * \npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set}\n\n/**\n * Returns `true` if all elements match the given [predicate].\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 * 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 * 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 * Returns the number of elements in this collection.\n * \n * \n * @kotlin.internal.InlineOnly\n * \npublic inline fun <T> Collection<T>.count(): Int {\n return size}\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 * 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


```

*public inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(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 collection.
Returns the specified [initial] value if the collection 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 <T, R>
Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(checkIndexOverflow(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 list is empty.
@param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.

*public inline fun <T, R>
List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {
    var accumulator = initial
    if (!isEmpty()) {
        val iterator = listIterator(size)
        while (iterator.hasPrevious()) {
            accumulator = operation(iterator.previous(), accumulator)
        }
    }
    return accumulator
}

Accumulates value starting with [initial] value and applying [operation] from right to left
to each element with its index in the original list and current accumulator value.
Returns the specified [initial] value if the list 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.

*public inline fun
<T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {
    var accumulator = initial
    if (!isEmpty()) {
        val iterator = listIterator(size)
        while (iterator.hasPrevious()) {
            val index = iterator.previousIndex()
            accumulator = operation(index, iterator.previous(), accumulator)
        }
    }
    return accumulator
}

Performs the given [action] on each element.

*internal.HidesMembers
*public inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {
    for (element in this) action(element)
}

Performs the given [action] on each element, providing sequential index with the element.
@param [action] function that takes the index of an element and the element itself
and performs the action on the element.

*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.
@param sample samples.collections.Collections.Aggregates.maxByOrNull
*internal@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 maxV = selector(maxElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (maxV < v) {
            maxElem = e
            maxV = v
        }
    } while (iterator.hasNext())
    return maxElem
}

Returns the largest 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<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 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<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 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 : Comparable<R>>
Iterable<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 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)
-> Double): Double? {\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
            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 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/**\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/**\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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\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 max = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(max, v) < 0) {\n            max = v\n        }\n    }\n    return max\n}\n/**\n * Returns the largest 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.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\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 max = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(max, v) < 0) {\n            max = v\n        }\n    }\n    return max\n}\n/**\n * Returns the largest element or `null` if there are no elements.\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 * * 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}\nreturn 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>>\nIterable<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 * 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 <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@Deprecated("Use minOrNull instead.")
```

```
ReplaceWith("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@Deprecated("Use minOrNull instead.")
```

```
ReplaceWith("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@Deprecated("Use minOrNull instead.")
```

```
ReplaceWith("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@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 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * * @sample
```

```

samples.collections.Collections.Aggregates.minByOrNull\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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\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@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>.minOf(selector: (T) -> R): R {\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    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 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>.minOfOrNull(selector: (T)
-> Double): Double?
{\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\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 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>.minOfOrNull(selector: (T)
-> Float): Float? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\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 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>.minOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\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 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>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\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        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 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>.minOfWithOrNull(comparator:
Comparator<in R>, selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n
var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\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 Iterable<Double>.minOrNull(): Double? {\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 * If any of elements is `NaN` returns `NaN`.\n * \n *\n@SinceKotlin("1.4")\npublic 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 *\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 * Performs the given [action] on each element, providing sequential index with the element, \n * and returns the collection 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 public inline fun <T, C : Iterable<T>>

C.onEachIndexed(action: (index: Int, T) -> Unit): C { \n return apply { forEachIndexed(action) } \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 collection is empty.

If the collection 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 public 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 * 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 collection. \n * \n * Throws an exception if this collection is empty.

If the collection 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 public 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 * 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 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") \n public 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 * 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) \n public 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 * 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 * \n public 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 * @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 *\n@SinceKotlin("1.4")\n@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/**\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> 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/**\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 * \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")\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/**\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
*\n@SinceKotlin("1.4")\n@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/**\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
*\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  }\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@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Iterable<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,
its index in the original collection 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 inline fun <T, R>
Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> 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 collection.\n * \n * @Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>
Iterable<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 collection.\n * \n * @Deprecated("Use sumOf instead.\",

```



```

ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>
Iterable<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 collection.\n
*\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> Iterable<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
collection.\n
*\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 <T>
Iterable<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 collection.\n
*\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
<T> Iterable<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
collection.\n
*\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> 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
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
collection.\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 <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
*\n*\npublic fun <T : Any> Iterable<T?>.requireNonNulls(): 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")\nreturn 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
*\n*\npublic fun <T : Any> List<T?>.requireNonNulls(): List<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")\nreturn this as
List<T>\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*\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.

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 collection.

@sample samples.text.Strings.chunkedTransform

```


@SinceKotlin("1.2")
public fun <T, R>
Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {
    return windowed(size, size,
partialWindows = true, transform = transform)
}


```

Returns a list containing all elements of the original collection without the first occurrence of the given [element].

```


public operator fun <T>
Iterable<T>.minus(element: T): List<T> {
    val result = ArrayList<T>(collectionSizeOrDefault(10))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}


```

Returns a list containing all elements of the original collection except the elements contained in the given [elements] array.

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>
Iterable<T>.minus(elements: Array<out T>): List<T> {
    if (elements.isEmpty()) return this.toList()
    val other = elements.convertToSetForSetOperation()
    return this.filterNot { it in other }
}


```

Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.

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>
Iterable<T>.minus(elements: Iterable<T>): List<T> {
    val other = elements.convertToSetForSetOperationWith(this)
    if (other.isEmpty()) return this.toList()
    return this.filterNot { it in other }
}


```

Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.

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>
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.\n *^\npublic operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {\n  if
(this is Collection) return this.plus(elements)\n  val result = ArrayList<T>()\n  result.addAll(this)\n
result.addAll(elements)\n  return result\n}\n\n/**\n * Returns a list containing all elements of the original
collection and then all elements of the given [elements] array.\n *^\npublic operator fun <T>
Collection<T>.plus(elements: Array<out T>): List<T> {\n  val result = ArrayList<T>(this.size + elements.size)\n
result.addAll(this)\n  result.addAll(elements)\n  return result\n}\n\n/**\n * Returns a list containing all elements
of the original collection and then all elements of the given [elements] collection.\n *^\npublic operator fun <T>
Iterable<T>.plus(elements: Iterable<T>): List<T> {\n  if (this is Collection) return this.plus(elements)\n  val
result = ArrayList<T>()\n  result.addAll(this)\n  result.addAll(elements)\n  return result\n}\n\n/**\n
* Returns a list containing all elements of the original collection and then all elements of the given [elements]
collection.\n *^\npublic operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {\n  if (elements is
Collection) {\n    val result = ArrayList<T>(this.size + elements.size)\n    result.addAll(this)\n
result.addAll(elements)\n    return result\n  } else {\n    val result = ArrayList<T>(this)\n
result.addAll(elements)\n    return result\n  }\n}\n\n/**\n * Returns a list containing all elements of the original
collection and then all elements of the given [elements] sequence.\n *^\npublic operator fun <T>
Iterable<T>.plus(elements: Sequence<T>): List<T> {\n  val result = ArrayList<T>()\n  result.addAll(this)\n
result.addAll(elements)\n  return result\n}\n\n/**\n * Returns a list containing all elements of the original
collection and then all elements of the given [elements] sequence.\n *^\npublic operator
fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {\n  val result = ArrayList<T>(this.size + 10)\n
result.addAll(this)\n  result.addAll(elements)\n  return result\n}\n\n/**\n * Returns a list containing all elements
of the original collection and then the given [element].\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.plusElement(element: T): List<T> {\n  return plus(element)\n}\n\n/**\n * Returns a list containing all
elements of the original collection and then the given [element].\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Collection<T>.plusElement(element: T): List<T> {\n  return plus(element)\n}\n\n/**\n * Returns a list of
snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n *
snapshot is a list.\n * \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.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")\n public 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 * \n public 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 * \n public 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
* \n public 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 = ", ", 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)\nreturn 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>
Iterable<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 * Returns this
collection as an [Iterable].\n */\n@kotlin.internal.InlineOnly\npublic 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 */\npublic 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")\npublic 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")\npublic 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")\npublic 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

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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\nsamples.collections.Arrays.Usage.arrayOrEmpty\n\n/**\n * Returns a *typed* array containing all of the elements of this collection.\n */\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\nsamples.collections.Collections.Collections.collectionToTypedArray\n\n/**\n * Returns an immutable list containing only the specified object [element].\n */\n\npublic fun <T> listOf(element: T): List<T> =\narrayListOf(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\nArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit): List<E> {\n checkBuilderCapacity(capacity)\n return\nArrayList<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns an immutable set containing only the specified object [element].\n */\n\npublic fun <T> setOf(element: T): Set<T> =\nhashSetOf(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\nLinkedHashSet<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\nLinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns an immutable map, mapping only the specified key to the\n * specified value.\n */\n\npublic fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> =\nhashMapOf(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\nLinkedHashMap<K, V>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n return\nLinkedHashMap<K, V>(capacity).apply(builderAction).build()\n}\n\n/**\n * Fills the list with the provided [value].\n */\n
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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
*\n@public 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
*\n@public 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,
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\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@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@PublishedApi\ninternal actual fun checkIndexOverflow(index: Int): Int {\n  if (index < 0)
{\n    throwIndexOverflow()\n  }\n  return index\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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`

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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 * Returns an [Iterator] that wraps each element produced by the original iterator\n * into an
[IndexValue] 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 * 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 *
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 * 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("ComparisonsKt")\n\npackage
kotlin.comparisons\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\nimport kotlin.random.*\n\n/**\n * Returns the
greater of two values.\n */\n * If values are equal, returns the first one.\n */\n\n@SinceKotlin("1.1")\npublic expect
fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the greater of two values.\n
*/\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte):
Byte\n\n/**\n * Returns the greater of two values.\n */\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Short, b: Short): Short\n\n/**\n * Returns the greater of two values.\n
*/\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n
* Returns the greater of two values.\n */\n\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline
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\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\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\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\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\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\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\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\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\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\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

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*^@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 */^@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
*^@SinceKotlin("1.4")\npublic expect fun maxOf(a: Byte, vararg other: Byte): Byte\n\n/**\n * Returns the
greater of the given values.\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 */^@SinceKotlin("1.4")\npublic expect fun maxOf(a:
Int, vararg other: Int): Int\n\n/**\n * Returns the greater of the given values.\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 */^@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
*/^@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 */^@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 */^@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 */^@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
*^@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
*^@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
*^@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 value is `NaN`, returns `NaN`.\n
*/^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float):
Float\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n
*/^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double):
Double\n\n/**\n * Returns the smaller of three values.\n * \n * If there are multiple equal minimal values, returns the
first of them.\n */^@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T):
T\n\n/**\n * Returns the smaller of three values.\n */^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun minOf(a: Byte, b:
Byte, c: Byte): Byte\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c:
Short): Short\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int, c: Int):
Int\n\n/**\n * Returns the smaller of three values.\n */^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the smaller of three values.\n * \n *
If any value is `NaN`, returns `NaN`.\n */^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline
fun minOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is
`NaN`, returns `NaN`.\n */^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a:
Double, b: Double, c: Double): Double\n\n/**\n * Returns the
smaller of three values according to the order specified by the given [comparator].\n * \n * If there are multiple
equal minimal values, returns the first of them.\n */^@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, c: T,
comparator: Comparator<in T>): T {\n    return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n *
Returns the smaller of two values according to the order specified by the given [comparator].\n * \n * If values are

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equal, returns the first one.\n *^@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, comparator:
Comparator<in T>): T {\n    return if (comparator.compare(a, b) <= 0) a else b}\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
*^@SinceKotlin("1.4")\npublic expect fun <T : Comparable<T>> minOf(a: T, vararg other: T): T\n/**\n *
Returns the smaller of the given values.\n *^@SinceKotlin("1.4")\npublic expect fun minOf(a: Byte, vararg
other:
Byte): Byte\n/**\n * Returns the smaller of the given values.\n *^@SinceKotlin("1.4")\npublic expect fun
minOf(a: Short, vararg other: Short): Short\n/**\n * Returns the smaller of the given values.\n
*^@SinceKotlin("1.4")\npublic expect fun minOf(a: Int, vararg other: Int): Int\n/**\n * Returns the smaller of
the given values.\n *^@SinceKotlin("1.4")\npublic expect fun minOf(a: Long, vararg other: Long):
Long\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*^@SinceKotlin("1.4")\npublic expect fun minOf(a: Float, vararg other: Float): Float\n/**\n * Returns the
smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n *^@SinceKotlin("1.4")\npublic
expect fun minOf(a: Double, vararg other: Double): Double\n/**\n * Returns the smaller of the given values
according to the order specified by the given [comparator].\n * \n * If there are multiple equal minimal values,
returns the first
of them.\n *^@SinceKotlin("1.4")\npublic fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in
T>): T {\n    var min = a\n    for (e in other) if (comparator.compare(min, e) > 0) min = e\n    return
min}\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("MapsKt")\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 the first non-null value produced by
[transform] function being applied to entries of this map in iteration order,\n * or throws
[NoSuchElementException] if no non-null value was produced.\n * \n *
@sample samples.collections.Collections.Transformations.firstNotNullOf\n
*^@SinceKotlin("1.5")\n@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 * 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")\n@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 *
Returns a [List]
containing all key-value pairs.\n *^@npublic 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 * 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
*^@npublic 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 * 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

```

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*1.4@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolutionByLambdaReturnType@kotlin.jvm.JvmName("flatMapSequence")public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {  

    return flatMapTo(ArrayList<R>(), transform)  

}
* Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].
*@kotlin.jvm.JvmName("flatMapSequenceTo")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 {  

    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 entry of original map, to the given [destination].
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Sequence<R>): C {  

    for (element in this) {  

        val list = transform(element)  

        destination.addAll(list)  

    }  

    return destination  

}
* Returns a list containing the results of applying the given [transform] function to each entry in the original map.
* @sample samples.collections.Maps.Transformations.mapToList
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {  

    return mapTo(ArrayList<R>(size), transform)  

}
* Returns a list containing only the non-null results of applying the given [transform] function to each entry in the original map.
* @sample samples.collections.Maps.Transformations.mapNotNull
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {  

    return mapNotNullTo(ArrayList<R>(), transform)  

}
* Applies the given [transform] function to each entry in the original map and appends only the non-null results to the given [destination].
*@kotlin.jvm.JvmName("flatMapSequenceTo")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 {  

    forEach { element -> transform(element)?.let { destination.add(it) } }  

    return destination  

}
* Applies the given [transform] function to each entry of the original map and appends the results to the given [destination].
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {  

    for (item in this) {  

        destination.add(transform(item))  

    }  

    return destination  

}
* Returns `true` if all entries match the given [predicate].
* @sample samples.collections.Collections.Aggregates.all
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {  

    if (isEmpty()) return true  

    for (element in this) if (!predicate(element)) return false  

    return true  

}
* Returns `true` if map has at least one entry.
* @sample samples.collections.Collections.Aggregates.any
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V> Map<out K, V>.any(): Boolean {  

    return !isEmpty()  

}
* Returns `true` if at least one entry matches the given [predicate].
* @sample samples.collections.Collections.Aggregates.anyWithPredicate
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {  

    if (isEmpty()) return false  

    for (element in this) if (predicate(element)) return true  

    return false  

}
* Returns the number of entries in this map.
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V> Map<out K, V>.count(): Int {  

    return size  

}
* Returns the number of entries matching the given [predicate].
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {  

    if (isEmpty()) return 0  

    var count = 0  

    for (element in this) if (predicate(element)) ++count  

    return count  

}
* Performs the given [action] on each entry.
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {  

    for (element in this) action(element)  

}
*@kotlin.jvm.JvmName("flatMapSequenceTo")public inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {  

    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]
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

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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(\n"Use maxWithOrNull instead.\n",
ReplaceWith(\n"this.maxWithOrNull(comparator)\n"))\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince
= \n"1.5\n", hiddenSince = \n"1.6\n")\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\n@SinceKotlin(\n"1.4\n")\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(\n"Use minByOrNull instead.\n",
ReplaceWith(\n"this.minByOrNull(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = \n"1.4\n", errorSince =
\n"1.5\n", hiddenSince = \n"1.6\n")\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\n@SinceKotlin(\n"1.4\n")\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\n@SinceKotlin(\n"1.4\n")\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\n@SinceKotlin(\n"1.4\n")\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>) -> 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\n@SinceKotlin(\n"1.4\n")\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\n@SinceKotlin(\n"1.4\n")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n  return
entries.minOfOrNull(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\n@SinceKotlin(\n"1.4\n")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n  return
entries.minOfOrNull(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@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n * 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@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return entries.minOfWith(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@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.minOfWithOrNull(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]\n
```

```
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 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:\n
```

```
(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 * \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 {\n
```

```
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\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:\n
```

```
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\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\n
```

```
}\n\nreturn if (this == '\u0149') uppercase else uppercase[0] + uppercase.substring(1).lowercase()\n}\n\nreturn\n
```

```

titlecaseChar().toString()\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 */\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 */\n * @sample samples.text.Chars.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.lowercaseChar(): Char = lowercase()[0]\n\n/**\n * Converts this character to lower case
using Unicode mapping rules of the invariant locale.\n */\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'.lowercase()` 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 */\n *
@sample samples.text.Chars.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.lowercase(): 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 */\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 */\n * @sample samples.text.Chars.uppercase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Char.uppercaseChar(): Char {\n    val uppercase = uppercase()\n    return if (uppercase.length > 1) this else
uppercase[0]\n}\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant
locale.\n */\n * This function supports one-to-many character mapping, thus the length of the returned string can be
greater than one.\n * For example, `'\uFB00'.uppercase()` returns `'\u0046\u0046'`,\n * where `'\uFB00` is the
LATIN SMALL LIGATURE FF character (`\ufb00`).\n * If this character has no upper case mapping, the result of
`toString()` of this char is returned.\n */\n * @sample
samples.text.Chars.uppercase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Char.uppercase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()\n\n/**\n
 * Converts this character to title case using Unicode mapping rules of the invariant locale.\n */\n * This function
performs one-to-one character mapping.\n * To support one-to-many character mapping use the [titlecase]
function.\n * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.\n */\n *
@sample samples.text.Chars.titlecase\n
*/\n@SinceKotlin("1.5")\npublic actual fun Char.titlecaseChar(): Char =
titlecaseCharImpl()\n\n/**\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as
leading-surrogate code unit).\n */\n@kotlin.internal.InlineOnly\npublic actual fun Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this
character is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n */\n@kotlin.internal.InlineOnly\npublic actual fun
Char.isLowSurrogate(): Boolean = this in
Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n\n/**\n * Returns the Unicode general
category of this character.\n */\n@SinceKotlin("1.5")\npublic actual val Char.category: CharCategory\n    get() =

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CharCategory.valueOf(getCategoryValue())\n\n**\n * Returns `true` if this character (Unicode code point) is
defined in Unicode.\n\n * A character is considered to be defined in Unicode if its [category] is not
[CharCategory.UNASSIGNED].\n\n * \n@SinceKotlin("1.5")\npublic actual fun Char.isDefined(): Boolean {\n    if
(this < "\u0080") {\n        return true\n    }\n    return getCategoryValue() !=
CharCategory.UNASSIGNED.value\n}\n\n**\n * Returns `true` if this character is a letter.\n\n * A character is
considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n\n *
[CharCategory.LOWERCASE_LETTER],
[CharCategory.TITLECASE_LETTER], [CharCategory.MODIFIER_LETTER], or
[CharCategory.OTHER_LETTER].\n\n * \n * @sample samples.text.Chars.isLetter\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isLetter(): Boolean {\n    if (this in 'a..'z' || this in 'A..'Z') {\n
return true\n    }\n    if (this < "\u0080") {\n        return false\n    }\n    return isLetterImpl()\n}\n\n**\n * Returns
`true` if this character is a letter or digit.\n\n * \n * @see isLetter\n\n * @see isDigit\n\n * \n * @sample
samples.text.Chars.isLetterOrDigit\n\n * \n@SinceKotlin("1.5")\npublic actual fun Char.isLetterOrDigit(): Boolean
{\n    if (this in 'a..'z' || this in 'A..'Z' || this in '0..'9') {\n        return true\n    }\n    if (this < "\u0080") {\n
return
false\n    }\n\n    return isDigitImpl() || isLetterImpl()\n}\n\n**\n * Returns `true` if this character is a digit.\n\n *
A character is considered to be a digit if its [category] is [CharCategory.DECIMAL_DIGIT_NUMBER].\n\n *
\n * @sample samples.text.Chars.isDigit\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isDigit(): Boolean {\n    if (this in '0..'9') {\n        return true\n
}\n    if (this < "\u0080") {\n        return false\n    }\n    return isDigitImpl()\n}\n\n**\n * Returns `true` if this
character is upper case.\n\n * A character is considered to be an upper case character if its [category] is
[CharCategory.UPPERCASE_LETTER],\n\n * or it has contributory property `Other_Uppercase` as defined by the
Unicode Standard.\n\n * \n * @sample samples.text.Chars.isUpperCase\n\n * \n@SinceKotlin("1.5")\npublic actual fun
Char.isUpperCase(): Boolean {\n    if (this in 'A..'Z') {\n        return true\n    }\n    if (this < "\u0080") {\n
return
false\n    }\n    return isUpperCaseImpl()\n}\n\n**\n * Returns `true` if this character is lower case.\n\n * A
character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\n\n *
or it has contributory property `Other_Lowercase`
as defined by the Unicode Standard.\n\n * \n * @sample samples.text.Chars.isLowerCase\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isLowerCase(): Boolean {\n    if (this in 'a..'z') {\n        return
true\n    }\n    if (this < "\u0080") {\n        return 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 * \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\n * meaning the Char is in the range `"\u0000..\u001F"`
or in the range `"\u007F..\u009F".\n\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\n *
Returns `true` if the character is whitespace.\n\n * \n * @sample samples.text.Chars.isWhitespace\n\n * \n@SinceKotlin("1.5")\npublic actual
fun Char.isWhitespace(): Boolean = isWhitespaceImpl()", /*\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@package kotlin.text\n\n * \nimport kotlin.js.RegExp\n\n * \n * Converts
the characters in the specified array to a string.\n\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 * \n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than

```



```

zero or `offset + length` is out of [chars] array bounds.
*/@SinceKotlin("1.2")@Deprecated("Use
CharArray.concatToString(startIndex, endIndex) instead", ReplaceWith("chars.concatToString(offset, offset +
length)"))@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")
public actual fun String(chars:
CharArray, offset: Int, length: Int): String {
    if (offset < 0 || length < 0 || chars.size - offset < length)
        throw
IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")
    var result = ""
    for
(index in offset until offset + length) {
        result += chars[index]
    }
    return result
}

Concatenates characters in this [CharArray] into a String.
*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)
public actual fun
CharArray.concatToString(): String {
    var result = ""
    for (char in this) {
        result += char
    }
    return result
}

Concatenates characters in this [CharArray] or its subrange into a String.
*/@param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.
*/@param endIndex the end
(exclusive) of the subrange of characters, size of this array by default.
*/@throws
IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.
*/@throws
IllegalArgumentException if [startIndex] is greater than [endIndex].

*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharArray.concatToString(startIndex:
Int = 0, endIndex: Int = this.size): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
    var result = ""
    for (index in startIndex until endIndex) {
        result += this[index]
    }
    return
result
}

Returns a [CharArray] containing characters of this string.
*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)
public actual fun
String.toCharArray(): CharArray {
    return CharArray(length) { get(it) }
}

Returns a [CharArray]
containing characters of this string or its substring.
*/@param startIndex the beginning (inclusive) of the
substring, 0 by default.
*/@param endIndex the end (exclusive) of the substring, length of this string by default.
*/@throws
IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length
of this string.
*/@throws
IllegalArgumentException if [startIndex] is greater than [endIndex].

*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public
actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    return CharArray(endIndex - startIndex) {
        get(startIndex + it)
    }
}

Decodes a string from the bytes in UTF-8 encoding in this array.
*/@throws
Malformed byte sequences are replaced by the replacement char `      `.

*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)
public actual fun
ByteArray.decodeToString(): String {
    return decodeUtf8(this, 0, size, false)
}

Decodes a string from
the bytes in UTF-8 encoding in this array or its subrange.
*/@param startIndex the beginning (inclusive) of the
subrange to decode, 0 by default.
*/@param endIndex the end (exclusive) of the subrange to decode, size of this
array by default.
*/@param throwOnInvalidSequence
specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char
`      `.
*/@throws
IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater
than the size of this array.
*/@throws
IllegalArgumentException if [startIndex] is greater than [endIndex].
*/@throws
CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and
[throwOnInvalidSequence] is true.

*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.decodeToString(
    startIndex: Int = 0,
    endIndex: Int = this.size,
    throwOnInvalidSequence: Boolean = false): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
    return decodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)
}

Encodes this string to an array of bytes in UTF-8 encoding.
*/@throws
Any malformed char sequence is replaced by the replacement byte sequence.

*/@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)
public actual fun

```

```

String.encodeToByteArray(): ByteArray {
    return encodeUtf8(this, 0, length, false)
}

/** Encodes this string or its substring to an array of bytes in UTF-8 encoding.
 * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.
 * @param endIndex the end (exclusive) of the substring to encode, length of this string by default.
 * @param throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.
 * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
 * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].
 * @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTIONS_WITH_DEFAULT_ARGUMENTS")
public actual fun String.encodeToByteArray(
    startIndex: Int = 0,
    endIndex: Int = this.length,
    throwOnInvalidSequence: Boolean = false
): ByteArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}

/** Returns a copy of this string converted to upper case using the rules of the default locale.
 * @Deprecated("Use uppercase() instead.", ReplaceWith("uppercase()"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @kotlin.internal.InlineOnly
 * public actual inline fun String.toUpperCase(): String =
    asDynamic().toUpperCase()
 */
/** Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale.
 * This function supports one-to-many and many-to-one character mapping, thus the length of the returned string can be different from the length of the original string.
 * @sample samples.text.Strings.uppercase
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public actual inline fun String.toUpperCase(): String =
    asDynamic().toUpperCase()
/** Returns a copy of this string converted to lower case using the rules of the default locale.
 * @Deprecated("Use lowercase() instead.", ReplaceWith("lowercase()"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @kotlin.internal.InlineOnly
 * public actual inline fun String.toLowerCase(): String =
    asDynamic().toLowerCase()
 */
/** Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.
 * This function supports one-to-many and many-to-one character mapping, thus the length of the returned string can be different from the length of the original string.
 * @sample samples.text.Strings.lowercase
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public actual inline fun String.toLowerCase(): String =
    asDynamic().toLowerCase()
@kotlin.internal.InlineOnly
internal actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int =
    asDynamic().indexOf(str, fromIndex)
@kotlin.internal.InlineOnly
internal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int =
    asDynamic().lastIndexOf(str, fromIndex)
@kotlin.internal.InlineOnly
internal inline fun String.nativeStartsWith(s: String, position: Int): Boolean =
    asDynamic().startsWith(s, position)
@kotlin.internal.InlineOnly
internal inline fun String.nativeEndsWith(s: String): Boolean =
    asDynamic().endsWith(s)
@kotlin.internal.InlineOnly
public actual inline fun String.substring(startIndex: Int): String =
    asDynamic().substring(startIndex)
@kotlin.internal.InlineOnly
public actual inline fun String.substring(startIndex: Int, endIndex: Int): String =
    asDynamic().substring(startIndex, endIndex)
@Deprecated("Use String.plus() instead", ReplaceWith("this + str"))
@DeprecatedSinceKotlin(warningSince = "1.6")
@kotlin.internal.InlineOnly
public inline fun String.concat(str: String): String =
    asDynamic().concat(str)
@Deprecated("Use Regex.findAll() instead or invoke matches() on String dynamically: this.asDynamic().match(regex)")
@DeprecatedSinceKotlin(warningSince = "1.6")
@kotlin.internal.InlineOnly
public inline fun String.match(regex: String): Array<String>? =
    asDynamic().match(regex)
//native public fun String.trim(): String
//TODO: String.replace to implement

```

```

effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\n\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 * If
[ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()`
on each character is compared.\n
*/\n\n@SinceKotlin("1.2")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\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            if
(thisChar != otherChar) {\n                thisChar = thisChar.uppercaseChar()\n                otherChar =
otherChar.uppercaseChar()\n                if (thisChar != otherChar) {\n                    thisChar =
thisChar.lowercaseChar()\n                    otherChar = otherChar.lowercaseChar()\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\n@SinceKotlin("1.5")\n\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*/\n\n@SinceKotlin("1.5")\n\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\n\nprivate val STRING_CASE_INSENSITIVE_ORDER =
Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\n\n@SinceKotlin("1.2")\n\npublic actual val
String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\n    get() =
STRING_CASE_INSENSITIVE_ORDER\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("CharsKt")\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
* 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("Char $this is not a decimal digit")\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 "\uFF21" through "\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 "\uFF41" through "\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

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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToInt(radix: Int): Int {\n    return digitToIntOrNull(radix) ?: throw IllegalArgumentException("\Char $this is not a digit in the given radix=$radix")\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 * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\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@WasExperimental(ExperimentalStdlibApi::class)\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 '\uFF21' through '\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 '\uFF41' through '\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@WasExperimental(ExperimentalStdlibApi::class)\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`, the decimal digit Char with code `0'.code + this` is returned.\n *\n * @sample samples.text.Chars.digitToChar\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(): Char {\n    if (this in 0..9) {\n        return '0' + this\n    }\n    throw IllegalArgumentException("\Int $this is not a decimal digit")\n}\n\n/**\n * Returns the Char that represents this numeric digit value in the specified [radix].\n * Throws 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 value is less than `10`, the decimal digit Char with code `0'.code + this` is returned.\n * Otherwise, the uppercase Latin letter with code `A'.code + this - 10` is returned.\n *\n * @sample samples.text.Chars.digitToChar\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(radix: Int): Char {\n    if (radix !in 2..36) {\n        throw IllegalArgumentException("Invalid radix: $radix. Valid radix values are in range 2..36")\n    }\n    if (this < 0 || this >= radix) {\n        throw IllegalArgumentException("\Digit $this does not represent a valid digit in radix $radix")\n    }\n    return if (this < 10) {\n        '0' + this\n    } else {\n        'A' + this - 10\n    }\n}\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * @sample samples.text.Chars.lowercase\n */\n*\n@Deprecated("Use lowercaseChar() instead.")\nReplaceWith("lowercaseChar()")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun Char.toLowerCase(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\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 *\n * @sample samples.text.Chars.lowercase\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.lowercaseChar(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\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'.lowercase()` returns `'\u0069\u0307'`, where

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`'\u0130'` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\ufffd\uuffd`).
 If this character has no lower case mapping, the result of `toString()` of this char is returned.
`@sample samples.text.Chars.lowercase`

```

*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalStdlibApi::class)^public expect fun
Char.lowercase(): String^
* Converts this character to upper case using Unicode mapping rules of the
invariant locale.
*^@Deprecated("Use uppercaseChar() instead.",
ReplaceWith("uppercaseChar()"))^@DeprecatedSinceKotlin(warningSince
= "1.5")^public expect fun Char.toUpperCase(): Char^
* Converts this character to upper 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 [uppercase] function.
* If this character has no mapping
equivalent, the character itself is returned.
*^@sample samples.text.Chars.uppercase
*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalStdlibApi::class)^public expect fun
Char.uppercaseChar(): Char^
* 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 (\ufffd\uuffd\uuffd).
* 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)^public expect fun
Char.uppercase(): 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
expect fun Char.titlecaseChar(): Char^
* Converts this character to title 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'.titlecase() returns '\u0046\u0066', where
'\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")^public fun Char.titlecase(): String = titlecaseImpl()^
* Concatenates this Char
and a String.
*^@sample samples.text.Chars.plus
*^@kotlin.internal.InlineOnly^public 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
*^public 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.
*^public fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE^
* Returns the Unicode general category of this character.
*^@SinceKotlin("1.5")^public 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")^public 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")`public 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")`public 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")`public 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")`public 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")`public 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")`public 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")`public 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`
public expect fun Char.isWhitespace(): Boolean
"/
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.
package 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())`).
That overload doesn't check validity of the argument, and may improve program performance when the function is called routinely inside a loop.
`@sample samples.text.Chars.charFromCode`
`@SinceKotlin("1.5")`
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun Char(code: Int): Char {
if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {
throw IllegalArgumentException("Invalid Char code: \$code")
}
return code.toChar()
}
Creates a Char with the specified [code].
`@sample samples.text.Chars.charFromCode`
`@SinceKotlin("1.5")`
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect fun Char(code: UShort): Char
Returns the code of this Char.
Code of a Char is the value it was constructed with, and the UTF-16 code unit corresponding to this Char.
`@sample samples.text.Chars.code`
`@SinceKotlin("1.5")`
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION")
public inline val Char.code: Int get() = this.toInt()
"/
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("SequencesKt")
package kotlin.sequences
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
See: <https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib>
import kotlin.random.*
Returns `true` if [element] is found in the sequence.
The operation is `_terminal_`.
public operator fun

```

<@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {
    return indexOf(element)
    >= 0
}

Returns
an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this
sequence.

The operation is _terminal_.

@sample
samples.collections.Collections.Elements.elementAt

public fun <T> Sequence<T>.elementAt(index: Int): T
{
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at
    index $index.") }
}

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.

The operation is _terminal_.

@sample
samples.collections.Collections.Elements.elementAtOrElse

public fun <T>
Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T
{
    if (index < 0)
        return
        defaultValue(index)
    val iterator = iterator()
    var count = 0
    while (iterator.hasNext())
    {
        val element
        = iterator.next()
        if (index == count++)
            return element
    }
    return defaultValue(index)
}

Returns an element at the given [index] or `null`
if the [index] is out of bounds of this sequence.

The operation is _terminal_.

@sample
samples.collections.Collections.Elements.elementAtOrNull

public fun <T>
Sequence<T>.elementAtOrNull(index: Int): T?
{
    if (index < 0)
        return null
    val iterator = iterator()
    var count = 0
    while (iterator.hasNext())
    {
        val element = iterator.next()
        if (index == count++)
            return element
    }
    return null
}

Returns the first element matching the given [predicate], or `null`
if no such element was found.

The operation is _terminal_.

@sample
samples.collections.Collections.Elements.find

public inline fun <T>
Sequence<T>.find(predicate: (T) -> Boolean): T?
{
    return firstOrNull(predicate)
}

Returns the last
element matching the
given [predicate], or `null` if no such element was found.

The operation is _terminal_.

@sample
samples.collections.Collections.Elements.find

public inline fun <T>
Sequence<T>.findLast(predicate: (T) -> Boolean): T?
{
    return lastOrNull(predicate)
}

Returns first
element.

@throws [NoSuchElementException] if the sequence is empty.

The operation is _terminal_.

public fun <T> Sequence<T>.first(): T
{
    val iterator = iterator()
    if (!iterator.hasNext())
        throw
        NoSuchElementException("Sequence is empty.")
    return iterator.next()
}

Returns the first element
matching the given [predicate].

@throws [NoSuchElementException] if no such element is found.

The operation is _terminal_.

public inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T
{
    for
    (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Sequence
    contains no element matching the predicate.")
}

Returns the first non-null value produced by
[transform] function being applied to elements of this sequence in iteration order,
or throws
[NoSuchElementException] if no non-null value was produced.

The operation is _terminal_.

@sample
samples.collections.Collections.Transformations.firstNotNullOf

@SinceKotlin("1.5")
public inline fun <T, R : Any>
Sequence<T>.firstNotNullOf(transform: (T) -> R?): R
{
    return firstNotNullOfOrNull(transform) ?: throw
    NoSuchElementException("No element of the sequence was transformed to a non-null value.")
}

Returns the first non-null value produced by [transform] function being applied to elements of this sequence in
iteration order,
or `null` if no non-null value was produced.

The operation is _terminal_.

@sample
samples.collections.Collections.Transformations.firstNotNullOf

@SinceKotlin("1.5")
public
inline fun <T, R : Any> Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R?
{
    for (element in this)
    {
        val result = transform(element)
        if (result != null)
            return result
    }
    return
    null
}

Returns the first element, or `null` if the sequence is empty.

The operation is _terminal_.

public fun <T> Sequence<T>.firstOrNull(): T?
{
    val iterator = iterator()
    if (!iterator.hasNext())
        return null
    return iterator.next()
}

Returns the first element matching the given [predicate], or `null`
if element was not found.

The operation is _terminal_.

public 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\npublic 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\npublic 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  @Suppress("UNCHECKED_CAST")\n  return 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 = 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)\n    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.

```

    * The operation is _terminal_.
    * public fun <T> Sequence<T>.singleOrNull(): T? {
        val iterator = iterator()
        if (!iterator.hasNext()) return null
        val single = iterator.next()
        if (iterator.hasNext()) return null
        return single
    }
    * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
    * The operation is _terminal_.
    * public inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {
        var single: T? = null
        var found = false
        for (element in this) {
            if (predicate(element)) {
                if (found) return null
                single = element
                found = true
            }
        }
        if (!found) return null
        return single
    }
    * Returns a sequence containing all elements except first [n] elements.
    * The operation is _intermediate_ and _stateless_.
    * @throws IllegalArgumentException if [n] is negative.
    * @sample samples.collections.Collections.Transformations.drop
    * public fun <T> Sequence<T>.drop(n: Int): Sequence<T> {
        require(n >= 0) { "\"Requested element count $n is less than zero.\""}
        return when {
            n == 0 -> this
            else -> DropSequence(this, n)
        }
    }
    * Returns a sequence containing all elements except first elements that satisfy the given [predicate].
    * The operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Collections.Transformations.dropWhile
    * public fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {
        return DropWhileSequence(this, predicate)
    }
    * Returns a sequence containing only elements matching the given [predicate].
    * The operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Collections.Filtering.filter
    * public fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {
        return FilteringSequence(this, true, predicate)
    }
    * Returns a sequence containing only elements matching the given [predicate].
    * @param [predicate] function that takes the index of an element and the element itself
    * and returns the result of predicate evaluation on the element.
    * The operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Collections.Filtering.filterIndexed
    * public fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {
        // TODO: Rewrite with generalized MapFilterIndexingSequence
        return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })
    }
    * 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.
    * The operation is _terminal_.
    * @sample samples.collections.Collections.Filtering.filterIndexedTo
    * public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {
        forEachIndexed { index, element ->
            if (predicate(index, element)) destination.add(element)
        }
        return destination
    }
    * Returns a sequence containing all elements that are instances of specified type parameter R.
    * The operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Collections.Filtering.filterIsInstance
    * public inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {
        @Suppress("UNCHECKED_CAST") return filter { it is R } as Sequence<R>
    }
    * Appends all elements that are instances of specified type parameter R to the given [destination].
    * The operation is _terminal_.
    * @sample samples.collections.Collections.Filtering.filterIsInstanceTo
    * public inline fun <reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {
        for (element in this) if (element is R) destination.add(element)
        return destination
    }
    * Returns a sequence containing all elements not matching the given [predicate].
    * The operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Collections.Filtering.filterNot
    * public fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {
        return FilteringSequence(this, false, predicate)
    }
    * Returns a sequence containing all elements that are not `null`.
    * The operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Collections.Filtering.filterNotNull
    * public fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {

```

```

@Suppress("UNCHECKED_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 *\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 *\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 *\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 *\n\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T>
{\n    require(n >= 0) { "Requested 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
*\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 *\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.toList()\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 samples.collections.Collections.Sorting.sortedBy\n *\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 *\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 *\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 *\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.toList()\n

```

```
sortedList.sortWith(comparator)\n        return sortedList.iterator()\n    }\n}\n\n/**\n * Returns a [Map]\n * containing key-value pairs provided by [transform] function\n * applied to elements of the given sequence.\n * \n * If any\n * of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the\n * entry iteration order of the original sequence.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T, K, V>\nSequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n    return associateTo(LinkedHashMap<K,\n * V>(), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given sequence indexed by the\n * key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the\n * same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry\n * iteration order of the original sequence.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>\nSequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    return associateByTo(LinkedHashMap<K, T>(), keySelector)\n}\n\n/**\n * Returns a [Map] containing the\n * values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given\n * sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to\n * the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n * \n * The\n * operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>\nSequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    return\n * associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the\n * [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to\n * each element of the given sequence\n * and value is the element itself.\n * \n * If any\n * two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The\n * operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>>\nSequence<T>.associateByTo(destination: M,\n * 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\n * key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function\n * applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by\n * [keySelector] the last one gets added to the map.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,\n * V, M : MutableMap<in\n * K, in V>>\nSequence<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\n * destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by\n * [transform] function applied to each element of the given sequence.\n * \n * If any of two pairs would have the same\n * key the last one gets added to the map.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in\n * K, in V>>\nSequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n    for (element in this)\n * {\n        destination += transform(element)\n    }\n    return destination\n}\n\n/**\n * Returns a [Map] where keys are\n * elements from the given sequence and values are\n * produced by the [valueSelector] function\n * applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The\n * returned map preserves the entry iteration order of the original sequence.\n * \n * The operation is _terminal_.\n * \n * \n * @sample\n * samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.3")\npublic\n * inline fun <K, V>\nSequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n    val result =\n * LinkedHashMap<K, V>()\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the\n * [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.

If any two elements are equal, the last one overwrites the former value in the map.

The operation is `_terminal_`.

`@sample`

```

samples.collections.Collections.Transformations.associateWithTo
*^@SinceKotlin("1.3")
npublic
inline fun <K, V, M : MutableMap<in K, in V>> Sequence<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.

The operation is `_terminal_`.

```

npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {
  for (item in this) {
    destination.add(item)
  }
  return destination
}
}
**

```

Returns a new [HashSet] of all elements.

The operation is `_terminal_`.

```

npublic fun <T> Sequence<T>.toHashSet(): HashSet<T> {
  return toCollection(HashSet<T>())
}
}
**

```

Returns a [List] containing all elements.

The operation is `_terminal_`.

```

npublic fun <T> Sequence<T>.toList(): List<T> {
  return
  this.toMutableList().optimizeReadOnlyList()
}
}
**

```

Returns a new [MutableList] filled with all elements of this

```

sequence.

```

The operation is `_terminal_`.

```

npublic fun <T> Sequence<T>.toMutableList():
MutableList<T> {
  return toCollection(ArrayList<T>())
}
}
**

```

Returns a [Set] of all elements.

The returned set preserves the element iteration order of the original sequence.

The operation is `_terminal_`.

```

npublic fun <T> Sequence<T>.toSet(): Set<T> {
  return
  toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()
}
}
**

```

Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.

The operation is `_intermediate_` and `_stateless_`.

`@sample`

```

samples.collections.Collections.Transformations.flatMap
*^@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> {
  return FlatteningSequence(this,
  transform, Iterable<R>::iterator)
}
}
**

```

Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.

The operation is `_intermediate_` and `_stateless_`.

`@sample`

```

samples.collections.Collections.Transformations.flatMap
npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {
  return FlatteningSequence(this,
  transform, Sequence<R>::iterator)
}
}
**

```

Returns a single sequence of all elements yielded from results of [transform] function being invoked on each element and its index in the original sequence.

The operation is `_intermediate_` and `_stateless_`.

`@sample`

```

samples.collections.Collections.Transformations.flatMapIndexed
*^@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> {
  return flatMapIndexed(this, transform,
  Iterable<R>::iterator)
}
}
**

```

Returns a single sequence of all elements yielded from results of [transform] function being invoked on each element and its index in the original sequence.

The operation is `_intermediate_` and `_stateless_`.

`@sample`

```

samples.collections.Collections.Transformations.flatMapIndexed
*^@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> {
  return
  flatMapIndexed(this, transform, Sequence<R>::iterator)
}
}
**

```

Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original sequence, to the given [destination].

The operation is `_terminal_`.

```

*^@SinceKotlin("1.4")
n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
n@OverloadResolution
ByLambdaReturnType
n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
n@kotlin.internal.InlineOnly
npublic

```

```

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 * 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 \npu
blic

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 * 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 * 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 public 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 * 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 * \n public 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 * 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 * 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 * 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 {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) {
            ArrayList<V>()
        }
        list.add(valueTransform(element))
    }
    return destination
}

Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations using the specified [keySelector] function to extract a key from each element. The operation is _intermediate_ and _stateless_.

@sample samples.collections.Grouping.groupingByEachCount

public inline fun <T, K> Sequence<T>.groupBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
    return object : Grouping<T, K> {
        override fun sourceIterator(): Iterator<T> = this@groupBy.iterator()
        override fun keyOf(element: T): K = keySelector(element)
    }
}

Returns a sequence containing the 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.map

public fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {
    return TransformingSequence(this, transform)
}

Returns a sequence containing the results of applying the given [transform] function to each element and its index in the original sequence.

@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 _intermediate_ and _stateless_.

public fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {
    return TransformingIndexedSequence(this, transform)
}

Returns a sequence containing only the non-null results of applying the given [transform] function to each element and its index in the original sequence.

@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 _intermediate_ and _stateless_.

public fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {
    return TransformingIndexedSequence(this, transform).filterNotNull()
}

Applies the given [transform] function to each element and its index in the original sequence 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. The operation is _terminal_.

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 inline 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))\n
    return destination\n}\n\n/**\n * Returns a sequence that wraps each element of the original sequence\n * into an [IndexedValue] containing the index of that element and the element itself.\n * \n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n    return IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given sequence.\n * \n * Among equal elements of the given sequence, only the first one will be present in the resulting sequence.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n * \n * The operation is _intermediate_ and _stateful_.\n * \n * @sample\n samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {\n    return this.distinctBy { it }\n}\n\n/**\n * Returns a sequence containing only elements from the given sequence\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given sequence with equal keys, only the first one will be present in the resulting sequence.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n * \n * The operation is _intermediate_ and _stateful_.\n * \n * @sample\n samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n    return DistinctSequence(this, selector)\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given sequence.\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>.toMutableSet(): MutableSet<T> {\n    val set = LinkedHashSet<T>()\n    for (item in this) set.add(item)\n    return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * The operation is _terminal_.\n * \n * @sample\n samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Sequence<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 sequence has at least one element.\n * \n * The operation is _terminal_.\n * \n * @sample\n samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Sequence<T>.any(): Boolean {\n    return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * The operation is _terminal_.\n * \n * @sample\n samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Sequence<T>.any(predicate: (T) -> 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 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 * 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 * 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 * 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 * 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 *\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 * 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@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@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` Returns the largest 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_`.

```

*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOrNull(selector:
(T) -> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        max =
maxOf(max, v)\n    }\n    return max\n}
    
```

Returns the largest 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_`.

```

*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic
inline fun <T> Sequence<T>.maxOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var max = selector(iterator.next())\n    while (iterator.hasNext()) {\n
val v = selector(iterator.next())\n        max = maxOf(max, v)\n    }\n    return max\n}
    
```

Returns the largest 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_`.

```

*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var max = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (max < v) {\n            max =
v\n        }\n    }\n    return max\n}
    
```

Returns the largest value according to the provided [comparator] 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_`.

```

*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) throw NoSuchElementException()\n    var max = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(max, v) < 0) {\n
max = v\n        }\n    }\n    return max\n}
    
```

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)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\n    var max = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(max, v) < 0) {\n
max = v\n        }\n    }\n    return max\n}
    
```

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")\npublic fun
Sequence<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}
    
```

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")\npublic fun
Sequence<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 return max \n } \n \n /** \n * Returns the largest element or `null` if there are no elements. \n * \n * The operation is
_terminal_. \n * \n * @SinceKotlin("1.4") \n public fun <T : Comparable<T>>
Sequence<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 \n @Deprecated("Use maxWithOrNull instead."),
ReplaceWith("this.maxWithOrNull(comparator)") \n \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6") \n public fun <T> Sequence<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 * The operation is _terminal_. \n
* \n * @SinceKotlin("1.4") \n public fun <T> Sequence<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."), ReplaceWith("this.minOrNull()") \n \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6") \n @SinceKotlin("1.1") \n public fun Sequence<Double>.min(): Double? { \n return
minOrNull() \n } \n \n @Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()") \n \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6") \n @SinceKotlin("1.1") \n public fun Sequence<Float>.min(): Float? { \n return
minOrNull() \n } \n \n @Deprecated("Use minOrNull instead."),
ReplaceWith("this.minOrNull()") \n \n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6") \n public fun <T : Comparable<T>> Sequence<T>.min(): T? { \n return
minOrNull() \n } \n \n @Deprecated("Use minByOrNull instead."),
ReplaceWith("this.minByOrNull(selector)") \n \n @DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6") \n public inline fun <T, R : Comparable<R>>
Sequence<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 * The operation is
_terminal_. \n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull \n
* \n * @SinceKotlin("1.4") \n public inline fun <T, R : Comparable<R>> Sequence<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 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 \n public inline fun <T> Sequence<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 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 \n public inline fun <T> Sequence<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 sequence.\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, R : Comparable<R>> Sequence<T>.minOf(selector: (T) -> R): R {\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        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 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector:
(T) -> Double): Double? {\n    val iterator =
iterator()\n    if (!iterator.hasNext()) return null\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 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector:
(T) -> Float): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\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 sequence or `null` if there are no elements.\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, R : Comparable<R>>
Sequence<T>.minOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\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 sequence.\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, R>
Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\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        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 sequence
or `null` if there are no elements.\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, R> Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n
val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\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 * The operation is _terminal_.\n
*/\n\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.minOrNull(): Double? {\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 * If any of elements is `NaN` returns `NaN`.\n * \n * The operation
is _terminal_.\n * \n * @SinceKotlin("1.4")\npublic fun Sequence<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 * The operation is _terminal_.\n * \n * @SinceKotlin("1.4")\npublic fun <T
: Comparable<T>> Sequence<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.")\nReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince
= "1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic fun <T> Sequence<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 * The operation is
_terminal_.\n * \n * @SinceKotlin("1.4")\npublic fun <T> Sequence<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 sequence has no elements.\n * \n * The operation is
_terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n\npublic fun <T>
Sequence<T>.none(): Boolean {\n    return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match
the
given [predicate].\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\n\npublic inline fun <T>
Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n    for (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\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 {\n
        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 */\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, and calculates the next accumulator value. The operation is `_terminal_` and @sample

```

samples.collections.Collections.Aggregates.reduce
public inline fun <S, T : S>
Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext())
        throw UnsupportedOperationException("Empty sequence can't be reduced.")
    var index = 1
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator =
            operation(checkIndexOverflow(index++), accumulator, iterator.next())
    }
    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 sequence. Returns `null` if the sequence 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. The operation is `_terminal_` and @sample

```

samples.collections.Collections.Aggregates.reduceOrNull
public inline fun <S, T : S>
Sequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var index = 1
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
    }
    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 sequence is empty.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. The operation is `_terminal_` and @sample

```

samples.collections.Collections.Aggregates.reduceOrNull
public inline fun <S, T : S>
Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return null
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

```

Returns a sequence 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 sequence. The [initial] value should also be immutable (or should not be mutated) 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. The operation is `_intermediate_` and `_stateless_` and @sample

```

samples.collections.Collections.Aggregates.runningFold
public fun <T, R>
Sequence<T>.runningFold(initial:
    R, operation: (acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var accumulator =
            initial
        for (element in this@runningFold) {
            accumulator = operation(accumulator, element)
        }
    }
}

```

Returns a sequence containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original sequence 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 sequence. The [initial] value should also be immutable (or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value. The operation is `_intermediate_` and `_stateless_` and @sample

```

samples.collections.Collections.Aggregates.runningFoldIndexed
public fun <T, R>
Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
    return sequence {
        yield(initial)
        var index = 0
        var accumulator = initial
        for (element in this@runningFoldIndexed) {
            accumulator = operation(checkIndexOverflow(index++), accumulator,

```

```

element)\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 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)\npublic 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            }\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")\npublic 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/**\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.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic 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)\npublic
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")\npublic inline

```

```

fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {
    var sum: Int = 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 sequence.

* The operation is `_terminal_`.

```

@Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> 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 sequence.

* The operation is `_terminal_`.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.sumOf(selector: (T) -> 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 sequence.

* The operation is `_terminal_`.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<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 sequence.

* The operation is `_terminal_`.

```

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<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 sequence.

* The operation is `_terminal_`.

```

@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {
    var sum: UInt = 0.toUInt()
    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 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
 * Since Kotlin("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> {
     return object: Sequence<T> {
         override fun iterator(): Iterator<T> {
             val other = elements.convertToSetForSetOperation()
             if (other.isEmpty()) return this@minus.iterator()
             else 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] sequence.

Note that the source sequence and the sequence 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.

The operation is `_intermediate_` for this sequence and `_terminal_` and `_stateful_` for the [elements] sequence.

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>
 Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {
     return object: Sequence<T> {
         override fun iterator(): Iterator<T> {
             val other = elements.convertToSetForSetOperation()
             if (other.isEmpty()) return this@minus.iterator()
             else return this@minus.filterNot { it in other }.iterator()
         }
     }
 }
 
```

Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].

The operation is `_intermediate_` and `_stateless_`.

```

 * @kotlin.internal.InlineOnly
 * public inline fun <T> Sequence<T>.minusElement(element: T):
 Sequence<T> {
     return minus(element)
 }
 
```

Splits the original sequence into pair of lists, where `*first*` list contains elements for which [predicate] yielded `true`, 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>
Sequence<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 } else {\n
second.add(element)\n } \n } \n return Pair(first, second)\n}\n\n/**\n * Returns a sequence containing all
elements of the original sequence and then the given [element].\n * \n * The operation is `_intermediate_` and
`_stateless_`.\n * \n\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n return
sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of
original sequence and then all elements of the given [elements] array.\n * \n * Note that the source sequence and the
array being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of
them 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: Array<out T>): Sequence<T>
{\n return 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] collection.\n * \n * Note that the source sequence and the
collection being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing
any of them 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: Iterable<T>): Sequence<T> {\n return
sequenceOf(this, elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of
original sequence and then all elements of the given [elements] sequence.\n * \n * Note that the source sequence and
the sequence being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing
any of them between successive calls to `iterator` may affect the result.\n * \n\n * The operation is `_intermediate_` and `_stateless_`.\n * \n\npublic operator fun <T> Sequence<T>.plus(elements:
Sequence<T>): Sequence<T> {\n return sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence
containing all elements of the original 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 plus(element)\n}\n\n/**\n * Returns a sequence
of snapshots of the window of the given [size]\n * sliding along this sequence with the given [step], where each
snapshot is a list.\n * \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 sequence.\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.takeWindows\n * \n\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 * \n * Both
[size] and [step]
must be positive and can be greater than the number of elements in this sequence.\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\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\n */\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\n */\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 * @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 sequence result@
{\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]\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.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
*\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 * \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 * \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 * \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 * \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 * \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 * \n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Sequence<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 sequence.\n *\n * The operation is _terminal_.\n
*\n * \n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Sequence<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
sequence.\n *\n * The operation is _terminal_.\n *\n * \n@kotlin.jvm.JvmName("sumOfInt")\npublic fun
Sequence<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 sequence.\n *\n * The operation is _terminal_.\n
*\n * \n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Sequence<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 sequence.\n
*\n * The operation is _terminal_.\n *\n * \n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun
Sequence<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 sequence.\n *\n * The operation is _terminal_.\n
*\n * \n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Sequence<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-
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\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 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 * \npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n    val result =
LinkedHashSet<T>(mapCapacity(size))\n    var removed = false\n    return this.filterTo(result) { if (!removed && it
== element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original
set except the elements contained in the given [elements] array.\n *\n * The returned set preserves the element
iteration order of the original set.\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 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)  
     return result  
 }  
 /**
```

```
  * 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.  
  * @kotlin.internal.InlineOnly  
  * public inline fun <T>  
  * Set<T>.minusElement(element: T): Set<T> {  
     return minus(element)  
 }  
 /**  
  * Returns a set containing all  
  * elements of the original set and then the given [element] if it isn't already  
  * in this set.  
  * The returned set  
  * preserves the element iteration order of the original set.
```

```
 public operator fun <T> Set<T>.plus(element: T):  
 Set<T> {  
     val result = LinkedHashSet<T>(mapCapacity(size + 1))  
     result.addAll(this)  
     result.add(element)  
     return result  
 }  
 /**  
  * Returns a set containing all  
  * elements of the original set and the  
  * given [elements] array,  
  * which aren't already in this set.  
  * The returned set preserves  
  * the element iteration order of the original set.
```

```
 public operator fun <T> Set<T>.plus(elements: Array<out T>):  
 Set<T> {  
     val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))  
     result.addAll(this)  
     result.addAll(elements)  
     return result  
 }  
 /**
```

```
  * Returns a set containing all  
  * elements of the original set and  
  * the given [elements] collection,  
  * which aren't already in this set.  
  * The returned set preserves the element  
  * iteration order of the original set.  
 public operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {  
     val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size *  
     2))  
     result.addAll(this)  
     result.addAll(elements)  
     return result  
 }  
 /**  
  * Returns a set containing all  
  * elements of the original set and the given [elements] sequence,  
  * which aren't already in this set.  
  * The  
  * returned set preserves the element iteration order of the original set.
```

```
 public operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {  
     val result =  
     LinkedHashSet<T>(mapCapacity(this.size * 2))  
     result.addAll(this)  
     result.addAll(elements)  
     return  
     result  
 }  
 /**  
  * Returns a set containing all  
  * elements of the original set and then the given [element] if it isn't  
  * already in this set.  
  * The returned set preserves the element iteration order of the original set.
```

```
 public inline fun <T> Set<T>.plusElement(element: T): Set<T> {  
     return  
     plus(element)  
 }  
 /**
```

```
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  * 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("StringsKt")  
 package
```

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\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 * \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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\npublic
inline fun CharSequence.elementAtOrNull(index: Int): Char? {\n return this.getOrNull()\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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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 * \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 * \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\n@SinceKotlin("1.5")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin("1.5")\n\n@kotlin.internal.InlineOnly\n\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 * \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 * \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 * \n\n@kotlin.internal.InlineOnly\n\npublic inline fun CharSequence.getOrNull(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 * \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    }\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    }\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 if this char sequence is empty.\n
*/\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\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\npubli
c 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\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
*/\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 */\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) { \"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) { \"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 */\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n
require(n >= 0) { \"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 */\npublic fun
String.dropLast(n: Int): String {\n     require(n >= 0) { \"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 * @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 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 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 [predicate].\n * \n * @sample samples.text.Strings.drop\n
*/\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n     for (index in
this.indices)\n         if (!predicate(this[index]))\n             return subSequence(index, length)\n     return \"\"\n}\n\n/**\n * Returns a string containing all characters except first characters that satisfy the given [predicate].\n * \n *
@sample samples.text.Strings.drop\n */\npublic inline fun String.dropWhile(predicate:
(Char) -> Boolean): String {\n     for (index in this.indices)\n         if (!predicate(this[index]))\n             return
substring(index)\n     return \"\"\n}\n\n/**\n * Returns a char sequence containing only those characters from the
original char sequence that match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n */\npublic
inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n     return filterTo(StringBuilder(),
predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the
given [predicate].\n * \n * @sample samples.text.Strings.filter\n */\npublic inline fun String.filter(predicate: (Char) -
> Boolean): String {\n     return filterTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Returns a char sequence
containing only those characters from the original char sequence that match the given [predicate].\n * @param
[predicate] function that takes the index of a character
and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun CharSequence.filterIndexed(predicate:
(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 *
@param [predicate] function that takes the index of a character and the character itself\n * and returns the result of
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
filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the

```

```

index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n
* @sample samples.collections.Collections.Filtering.filterIndexedTo\n *^\npublic inline fun <C : Appendable>
CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n  forEachIndexed {
index, element ->\n    if (predicate(index, element)) destination.append(element)\n  }\n  return
destination\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence
that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n *^\npublic inline fun
CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n  return filterNotTo(StringBuilder(),
predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that do not match
the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n *^\npublic inline fun
String.filterNot(predicate: (Char) -> Boolean): String {\n  return filterNotTo(StringBuilder(),
predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given
[destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C :
Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this)
if (!predicate(element)) destination.append(element)\n  return destination\n}\n\n/**\n * Appends all characters
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : Appendable>
CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (index in 0 until length) {\n    val
element = get(index)\n    if (predicate(element)) destination.append(element)\n  }\n  return
destination\n}\n\n/**\n * Returns a char sequence containing
characters of the original char sequence at the 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) { "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) { "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) { "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) { "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].

```

@sample samples.text.Strings.takeLastWhile(predicate: (Char) -> Boolean):
CharSequence
{n for (index in lastIndex downTo 0) {
    if (!predicate(this[index])) {
        return
subSequence(index + 1, length)}
}
}
return subSequence(0, length)
}
}

```

* Returns a string containing last characters that satisfy the given [predicate].

```

@sample samples.text.Strings.takeLastWhile(predicate: (Char) -> Boolean): String
{n for (index in lastIndex downTo 0) {
    if (!predicate(this[index])) {
        return substring(index + 1)}
}
}
return this
}
}

```

* Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].

```

@sample samples.text.Strings.takeWhile(predicate:
(Char) -> Boolean): CharSequence
{n for (index in 0 until length)
    if (!predicate(get(index))) {
        return subSequence(0, index)}
}
}
return subSequence(0, length)
}
}

```

* Returns a string containing the first characters that satisfy the given [predicate].

```

@sample samples.text.Strings.takeWhile(predicate: (Char) -> Boolean): String
{n for (index in 0 until length)
    if
(!predicate(get(index))) {
        return substring(0, index)}
}
}
return this
}
}

```

* Returns a char sequence with characters in reversed order.

```

@public fun CharSequence.reversed(): CharSequence {
return
StringBuilder(this).reverse()
}
}

```

* Returns a string with characters in reversed order.

```

@kotlin.internal.InlineOnly
@public inline fun String.reversed(): String {
return (this as
CharSequence).reversed().toString()
}
}

```

* Returns a [Map] containing key-value pairs provided by [transform] function applied to characters of the given char sequence.

* If any of two pairs would have the same key the last one gets added to the map.

* The returned map preserves the entry iteration order of the original char sequence.

```

@sample samples.text.Strings.associate
<K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V>
{n val capacity =
mapCapacity(length).coerceAtLeast(16)
return associateTo(LinkedHashMap<K, V>(capacity),
transform)}
}
}

```

* Returns a [Map] containing the characters from the given char sequence indexed by the key returned from [keySelector] function applied to each character.

* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.

* The returned map preserves the entry iteration order of the original char sequence.

```

@sample samples.text.Strings.associateBy
<K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char>
{n val capacity =
mapCapacity(length).coerceAtLeast(16)
return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)}
}
}

```

* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.

* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.

* The returned map preserves the entry iteration order of the original char sequence.

```

@sample
samples.text.Strings.associateByWithValueTransform
<K, V>
CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V>
{n val capacity =
mapCapacity(length).coerceAtLeast(16)
return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)}
}
}

```

* Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each character of the given char sequence and value is the character itself.

* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample samples.text.Strings.associateByTo
<K, M : MutableMap<in K, in Char>>
CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M
{n 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 characters of the given char sequence.

* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.

```

@sample
samples.text.Strings.associateByToWithValueTransform

```

```

*^public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M,
keySelector: (Char) -> K, valueTransform: (Char) -> 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 character of the given char sequence.
* If any of two pairs would have the same key the last one gets added to the map.
* @sample samples.text.Strings.associateTo

*^public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

* Returns a [Map] where keys are characters from the given char sequence and values are
* produced by the [valueSelector] function applied to each character.
* If any two characters are equal, the last one gets added to the map.
* The returned map preserves the entry iteration order of the original char sequence.
* @sample samples.text.Strings.associateWith

*^@SinceKotlin("1.3")^public inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {
    val result = LinkedHashMap<Char, V>(mapCapacity(length.coerceAtMost(128)).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

* Populates and returns the [destination] mutable map with key-value pairs for each character of the given char sequence,
* where key is the character itself and value is provided by the [valueSelector] function applied to that key.
* If any two characters are equal, the last one overwrites the former value in the map.
* @sample samples.text.Strings.associateWithTo

*^@SinceKotlin("1.3")^public inline fun <V, M : MutableMap<in Char, in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

* Appends all characters to the given [destination] collection.

*^public fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

* Returns a new [HashSet] of all characters.

*^public fun CharSequence.toHashSet(): HashSet<Char> {
    return toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))
}

* Returns a [List] containing all characters.

*^public fun CharSequence.toList(): List<Char> {
    return when (length) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else -> this.toMutableList()
    }
}

* Returns a new [MutableList] filled with all characters of this char sequence.

*^public fun CharSequence.toMutableList(): MutableList<Char> {
    return toCollection(ArrayList<Char>(length))
}

* Returns a [Set] of all characters.
* The returned set preserves the element iteration order of the original char sequence.

*^public fun CharSequence.toSet(): Set<Char> {
    return when (length) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))
    }
}

* Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original char sequence.
* @sample samples.collections.Collections.Transformations.flatMap

*^public inline fun <R> CharSequence.flatMap(transform: (Char) -> 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 character
* and its index in the original char sequence.
* @sample samples.collections.Collections.Transformations.flatMapIndexed

*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolutionByLambdaReturnType^@kotlin.jvm.JvmName("flatMapIndexedIterable")^@kotlin.internal.InlineOnly^public inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {
    return flatMapIndexedTo(ArrayList<R>(), transform)
}

* Appends all elements yielded from results of [transform] function being invoked on each character
* and its index in the original char sequence, to the given [destination].

*^@SinceKotlin("1.4")^@OptIn(kotlin.experimental.ExperimentalTypeInference::class)^@OverloadResolutionByLambdaReturnType^@kotlin.jvm.JvmName("flatMapIndexedIterableTo")^@kotlin.internal.InlineOnly^public

```

```

c 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 */\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 */\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 */\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 the given [keySelector] function\n * applied to each character and
puts to the [destination] map each group key associated with a list of corresponding characters.\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>>> CharSequence.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 character of the original char sequence\n *
by the key returned by the given [keySelector] function applied to the character\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>>> CharSequence.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 a
char sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function
to extract a key from each character.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n
*/\n\n@SinceKotlin("1.1")\npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K):
Grouping<Char, K> {\n  return object : Grouping<Char, K> {\n    override fun sourceIterator(): Iterator<Char>
= this@groupingBy.iterator()\n
    override fun keyOf(element: Char): K = keySelector(element)\n  }\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n *
@sample samples.text.Strings.map\n */\npublic inline fun <R> CharSequence.map(transform: (Char) -> R):
List<R> {\n  return mapTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each character and its index in the original char sequence.\n *
@param [transform] function that takes the index of a character and the character itself\n * and returns the result of
the transform applied to the character.\n */\npublic inline fun <R> CharSequence.mapIndexed(transform: (index:
Int, Char) -> R): List<R> {\n  return mapIndexedTo(ArrayList<R>(length), transform)\n}\n\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.

`\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.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 character in the original char sequence.\n */\n * @sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each 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\n */\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

```

 * to current accumulator value and each character with its index in the original char sequence.
 * Returns the specified [initial] value 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.
 */
public inline fun <R> CharSequence.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 character and current accumulator value.
 * Returns the specified [initial] value if the char sequence is empty.
 * @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator
 * value.
 */
public inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, 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 character with its index in the original char sequence and current accumulator value.
 * Returns the specified [initial] value 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.
 */
public inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Performs the given [action] on each character

```

 */
public inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {
    for (element in this) action(element)
}

```

Performs the given [action] on each character, providing sequential index with the character

```

 * @param [action] function that takes the index of a character and the character itself
 * and performs the action on the character.
 */
public inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

Deprecated Use `maxOrNull` instead.

```

 */
@Deprecated("Use maxOrNull instead.")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public fun CharSequence.max(): Char? {
    return maxOrNull()
}

```

Deprecated Use `maxByOrNull` instead.

```

 */
@Deprecated("Use maxByOrNull instead.")
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")
public inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {
    return maxByOrNull(selector)
}

```

Returns the first character yielding the largest value of the given function or `null` if there are no characters

```

 * @sample samples.collections.Collections.Aggregates.maxByOrNull
 * @SinceKotlin("1.4")
 */
public inline fun <R : Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

```

Returns the largest value among all values produced by [selector] function

```

 * applied to each character in the char sequence.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the char sequence is empty.
 * @SinceKotlin("1.4")
 * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
 * @OverloadResolutionByLambdaReturnType
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.maxOf(selector: (Char) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    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 character in the char sequence.
 * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
 * @throws NoSuchElementException if the char sequence is empty.
 * @SinceKotlin("1.4")
 * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
 * @OverloadResolutionByLambdaReturnType
 */
@kotlin.internal.InlineOnly
public

```

```

inline fun CharSequence.maxOf(selector: (Char) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    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 character in the char sequence.
// @throws NoSuchElementException if the char sequence is empty.
// Since Kotlin("1.4")
// OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// OverloadResolutionByLambdaReturnType
// kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
CharSequence.maxOf(selector: (Char) -> 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 character in the char sequence or `null` if there are no characters.
// If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
// Since Kotlin("1.4")
// OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// OverloadResolutionByLambdaReturnType
// kotlin.internal.InlineOnly
public inline fun CharSequence.maxOfOrNull(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
}
// Returns the largest value among all values produced by [selector] function
// applied to each character in the char sequence or `null` if there
// are no characters.
// If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
// Since Kotlin("1.4")
// OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// OverloadResolutionByLambdaReturnType
// kotlin.internal.InlineOnly
public inline fun CharSequence.maxOfOrNull(selector:
(Char) -> 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 character in the char sequence or `null` if there are no characters.
// Since Kotlin("1.4")
// OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// OverloadResolutionByLambdaReturnType
// kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>>
CharSequence.maxOfOrNull(selector: (Char) -> R): R? {
    if (isEmpty()) return null
    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 according to the provided [comparator]
// among all values produced by [selector] function applied to each character in the char sequence.
// @throws NoSuchElementException if the char sequence is empty.
// Since Kotlin("1.4")
// OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// OverloadResolutionByLambdaReturnType
// kotlin.internal.InlineOnly
public inline fun <R> CharSequence.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 character in the char sequence
// or `null` if there are no characters.
// Since Kotlin("1.4")
// OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// OverloadResolutionByLambdaReturnType
// kotlin.internal.InlineOnly
public inline fun <R>
CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> 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 character or `null` if there are no characters.
// Since Kotlin("1.4")
// OptIn(kotlin.experimental.ExperimentalTypeInference::class)
// OverloadResolutionByLambdaReturnType
// kotlin.internal.InlineOnly
public fun
CharSequence.maxOrNull(): Char? {
    if (isEmpty()) return null
    var max = this[0]
    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\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n\npublic fun CharSequence.maxWith(comparator: Comparator<in Char>): Char?
{\n    return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the largest value
according to the provided [comparator] or `null` if there are no characters.\n * \n\n@SinceKotlin("1.4")\n\npublic 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\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n\npublic fun CharSequence.min():
Char? {\n    return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.",
ReplaceWith("this.minByOrNull(selector)"))\n\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\n\npublic inline fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) ->
R): Char? {\n    return minByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the smallest value of
the given function or `null` if there are no characters.\n * \n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n\n@SinceKotlin("1.4")\n\npublic 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 * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * \n * @throws NoSuchElementException if the char
sequence is empty.\n * \n\n@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\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 * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * \n * @throws NoSuchElementException if the char
sequence is empty.\n * \n\n@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\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 * \n * @throws NoSuchElementException if the char sequence is empty.\n * \n\n@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\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 * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n\n@SinceKotlin("1.4")\n\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\n@OverloadResolution
ByLambdaReturnType\n\n@kotlin.internal.InlineOnly\n\npublic inline fun CharSequence.minOfOrNull(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@OverloadResolutionByLambdaReturnType\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@OverloadResolutionByLambdaReturnType\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 */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic 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  }\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 or `null` if there are no characters.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic 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  }\n  return minValue\n}\n\n/*\n * Returns the smallest character or `null` if there are no characters.\n */\n\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\n@Deprecated("Use minWithOrNull instead.")\nReplaceWith("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/*\n * Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.\n */\n\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/*\n * Returns `true` if the char sequence has no characters.\n * \n * @sample\n * samples.collections.Collections.Aggregates.none\n */\n\n@SinceKotlin("1.4")\npublic fun CharSequence.none(): Boolean {\n  return isEmpty()\n}\n\n/*\n * Returns `true` if no characters match the given [predicate].\n * \n * @sample\n * samples.collections.Collections.Aggregates.noneWithPredicate\n */\n\n@SinceKotlin("1.4")\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/*\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/**\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/**\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 *^@SinceKotlin("1.4")\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/**\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 *^@SinceKotlin("1.4")\npublic inline fun
CharSequence.reduceIndexed(operation:
(index: Int, 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(index, accumulator, this[index])\n    }\n    return accumulator\n}\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 * Returns `null` if the char sequence 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.reduceOrNull\n *^@SinceKotlin("1.4")\npublic inline fun
CharSequence.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/**\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 *
Returns `null` if the char sequence 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.reduceOrNull\n *^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceOrNull(operation: (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(accumulator, this[index])\n
    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation]
from right to left\n * to each character and current accumulator
value.\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 [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes a character and current accumulator value,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *^@SinceKotlin("1.4")\npublic inline
fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n    var index = lastIndex\n    if (index

```

```

< 0) throw UnsupportedOperationException("Empty char sequence 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 character 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 * Throws an exception if this char sequence is empty. If the char sequence 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 a character, the character itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty char sequence 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
character 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 `null` if
the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character
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
CharSequence.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 character and applying [operation] from right to left\n * to each character
and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n *
@param [operation] function that takes a character 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
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 =
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 character 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 a character, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\npublic inline fun <R>
CharSequence.runningFold(initial: R, operation: (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
(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 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.runningFold\n
*/\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 values generated by applying [operation] from left to right to each character and current accumulator value that starts with the first character of this char sequence. 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 a character, and calculates the next accumulator value. @sample

```
samples.collections.Collections.Aggregates.runningReduce\n *^@SinceKotlin("1.4")\npublic inline fun\nCharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return\n    emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(length).apply { add(accumulator) }\n    for (index in 1 until length) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character, its index in the original char sequence and current accumulator value that starts with the first character of this char sequence. 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 a character, current accumulator value and the character itself, and calculates the next accumulator value. @sample

```
samples.collections.Collections.Aggregates.runningReduce\n *^@SinceKotlin("1.4")\npublic inline fun\nCharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n    if\n    (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(length).apply {\n        add(accumulator) }\n    for (index in 1 until length) {\n        accumulator = operation(index, accumulator,\n        this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

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. 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 a character, and calculates the next accumulator value. @sample

```
samples.collections.Collections.Aggregates.scan\n\n *^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>\nCharSequence.scan(initial: R, operation: (acc: R, Char) -> 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 character, its index in the original char sequence 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 a character, current accumulator value and the character

itself, and calculates the next accumulator value. @sample

```
samples.collections.Collections.Aggregates.scan\n\n *^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>\nCharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n    return\n    runningFoldIndexed(initial, operation)\n}
```

Returns the sum of all values produced by [selector] function applied to each character in the char sequence. @Deprecated("Use sumOf instead.",

```
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun\nCharSequence.sumBy(selector: (Char) -> Int): Int {\n    var sum: Int = 0\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 character

in the char sequence. @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun\nCharSequence.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double = 0.0\n for (element in\n this) {\n sum += selector(element)\n }\n return sum\n}

Returns the sum of all values produced by

[selector] function applied to each character in the char sequence.

```

*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfDouble")@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.

```

[selector] function applied to each character in the char sequence.

```

*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfInt")@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.

```

[selector] function applied to each character in the char sequence.

```

*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfLong")@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.

```

[selector] function applied to each character in the char sequence.

```

*^@SinceKotlin("1.5")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfUInt")@WasExperimental(ExperimentalUnsignedType
s::class)@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.

```

[selector] function applied to each character in the char sequence.

```

*^@SinceKotlin("1.5")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.jvm.JvmName("sumOfULong")@WasExperimental(ExperimentalUnsignedType
s::class)@kotlin.internal.InlineOnly\npublic inline fun CharSequence.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 * Splits this char sequence into a list of strings each not exceeding the given [size].\n * \n * The
last string in the resulting list may have fewer characters than the given [size].\n * \n * @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.\n * \n * @sample samples.text.Strings.chunked\n *^@SinceKotlin("1.2")\npublic fun
CharSequence.chunked(size: Int): List<String> {\n    return windowed(size, size, partialWindows =
true)\n}\n\n/**\n * Splits this char sequence into several char sequences 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 char sequence.\n * \n * Note that the char sequence 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 char sequence may have fewer characters than the given [size].\n * \n * @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.\n * \n * @sample samples.text.Strings.chunkedTransform\n

```

[transform] function applied to each character in the char sequence.

```

*^@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R):
List<R> {\n    return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits this
char sequence into a sequence of strings each not exceeding the given [size].\n * \n * The last string in the resulting
sequence may have fewer characters than the given [size].\n * \n * @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.\n * \n * @sample
samples.Collections.Transformations.chunked\n *^@SinceKotlin("1.2")\npublic fun
CharSequence.chunkedSequence(size:
Int): Sequence<String> {\n    return chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence
into several char sequences each not exceeding the given [size]\n * 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
 *
 * Since Kotlin("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
 *
 * Since Kotlin("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
 *
 * Since Kotlin("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.\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.takeWindows\n *^\n@SinceKotlin("1.2")\npublic fun
CharSequence.windowedSequence(size: Int,
    step: Int = 1, partialWindows: Boolean = false): Sequence<String> {\n    return windowedSequence(size, step,
partialWindows) { it.toString() }\n}\n\n/**\n * Returns a sequence of results of applying the given [transform]
function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this
char sequence with the given [step].\n * \n * Note that the char sequence 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 char sequences may have fewer characters than the given [size].\n
*\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n
*\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 <R> CharSequence.windowedSequence(size: Int, step: Int = 1,
partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n
    checkWindowSizeStep(size, step)\n    val windows = (if (partialWindows) indices else 0 until length - size + 1) step
step\n    return windows.asSequence().map { index ->\n        val end = index + size\n        val coercedEnd = if (end <
0 || end > length) length else end\n        transform(subSequence(index, coercedEnd))\n    }\n}\n\n/**\n * Returns a
list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned
list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zip\n *^\npublic infix fun
CharSequence.zip(other: CharSequence):
    List<Pair<Char, Char>> {\n    return zip(other) { c1, c2 -> c1 to c2 }\n}\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 *^\npublic 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")\npublic
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")\npublic 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 *^\npublic 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 *^\npublic
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\npackage  
kotlin.text\nimport kotlin.contracts.contract\nimport 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")\npublic  
expect fun String.toUpperCase(): String\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*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic 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")\npublic 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*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic 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 * 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\n@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase())  
it.titlecase() else it.toString() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic 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,\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\n@Deprecated("Use  
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase()  
}"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun String.decapitalize(): String\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate]  
removed.\n */\n\npublic inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n    var  
startIndex = 0\n    var endIndex = length - 1\n    var startFound = false\n\n    while (startIndex <= endIndex) {\n        val index = if (!startFound) startIndex else endIndex\n        val match = predicate(this[index])\n\n        if  
(!startFound) {\n            if (!match)\n                startFound = true\n            else\n                startIndex += 1\n        } else {\n            if (!match)\n                break\n            else\n                endIndex -= 1\n        }\n    }\n\n    return  
subSequence(startIndex, endIndex + 1)\n}\n\n/**\n * Returns a string having leading and trailing characters  
matching the [predicate] removed.\n */\n\npublic inline fun String.trim(predicate: (Char) -> Boolean): String =\n(this as CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having  
leading characters matching the [predicate] removed.\n */\n\npublic inline fun CharSequence.trimStart(predicate:  
(Char) -> Boolean): CharSequence {\n    for (index in this.indices)\n        if (!predicate(this[index]))\n            return  
subSequence(index, length)\n    return ""\n}\n\n/**\n * Returns a string having leading characters matching the  
[predicate] removed.\n */\n\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n(this as  
CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.\n */\n\npublic inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n    for (index in  
this.indices.reversed())\n        if (!predicate(this[index]))\n            return subSequence(0, index + 1)\n    return  
""\n}\n\n/**\n * Returns a string having trailing characters matching the [predicate] removed.\n */\n\npublic inline
```

```

fun String.trimEnd(predicate: (Char) -> Boolean): String =\n    (this as
CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having
leading and trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trim(vararg chars:
Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having leading and trailing characters from
the [chars] array removed.\n */\npublic fun String.trim(vararg chars: Char): String = trim { it in chars }\n\n/**\n *
Returns a sub
sequence of this char sequence having leading characters from the [chars] array removed.\n */\npublic fun
CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }\n\n/**\n * Returns a string
having leading characters from the [chars] array removed.\n */\npublic fun String.trimStart(vararg chars: Char):
String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having trailing characters
from the [chars] array removed.\n */\npublic fun CharSequence.trimEnd(vararg chars: Char): CharSequence =
trimEnd { it in chars }\n\n/**\n * Returns a string having trailing characters from the [chars] array removed.\n
*/\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n/**\n * Returns a sub
sequence of this char sequence having leading and trailing whitespace removed.\n */\npublic fun
CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and
trailing whitespace
removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as
CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace
removed.\n */\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n *
Returns a string having leading whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this
char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence =
trimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing whitespace removed.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as
CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at
the beginning\n * to the specified [length] with the specified
character or space.\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 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    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 * @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 * @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    val sb =
StringBuilder(length)\n    sb.append(this)\n    for (i in 1..(length - this.length))\n        sb.append(padChar)\n    return

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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 * @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.stringIsNullOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence?.isNullOrEmpty(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty !=
null)\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.stringIsNullOrBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence?.isNullOrBlank(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrBlank !=
null)\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    public override fun nextChar(): Char = get(index++)\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 */\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.ifEmpty(defaultValue: () ->
R): R where C : CharSequence, C : R =\n    if (isEmpty()) defaultValue() else this\n\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 *\n * @sample samples.text.Strings.stringIfNotBlank\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R):
R where C : CharSequence, C : R =\n    if (isBlank()) defaultValue()
else this\n\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/**\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/**\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/**\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/**\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/**\n * Returns a subsequence of this char sequence.\n *\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
warning\n@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex

```

```

= start, endIndex = end)")\n\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence =
subSequence(start, end)\n\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 * \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\n\npublic inline fun CharSequence.substring(startIndex: Int, endIndex:
Int = length): String = subSequence(startIndex, endIndex).toString()\n\n/**\n * Returns a substring of chars at
indices from the specified [range] of this char sequence.\n * \n\npublic fun CharSequence.substring(range: IntRange):
String = subSequence(range.start, range.endInclusive + 1).toString()\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 * \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/**\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 * \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/**\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 * \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/**\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 * \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/**\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 * \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/**\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 * \n\npublic fun String.substringBeforeLast(delimiter:
String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index ==
-1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the last occurrence of
[delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue]
which defaults to the original string.\n * \n\npublic fun String.substringAfterLast(delimiter: Char,
missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1)
missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the last occurrence
of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the
original string.\n * \n\npublic fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this):
String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else
substring(index + delimiter.length, length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence
where its part at the given range\n * is replaced with the [replacement] char sequence.\n * @param startIndex the
index of the first character to be replaced.\n * @param endIndex the index of the first character
after the replacement to keep in the string.\n * \n\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex:
Int, replacement: CharSequence): CharSequence {\n    if (endIndex < startIndex)\n        throw
IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")\n    val sb =
StringBuilder()\n    sb.appendRange(this, 0, startIndex)\n    sb.append(replacement)\n    sb.appendRange(this,
endIndex, length)\n    return sb\n}\n\n/**\n * Replaces the part of the string at the given range with the
[replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param
endIndex the index of the first character after the replacement to keep in the string.\n

```

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*  

@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.removeRange(startIndex: Int, endIndex: Int): CharSequence =  

    (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.  

    * @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(range: IntRange): String =  

    (this as CharSequence).removeRange(range.start, range.endInclusive + 1).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.removePrefix(prefix: CharSequence): CharSequence =  

    (this as CharSequence).removePrefix(prefix).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 (startsWith(prefix)) return subSequence(prefix.length, length)  

    return this  

}
    * If this string starts with the given [prefix], returns a copy of this string with the prefix removed. Otherwise, returns this string.  

public fun String.removePrefix(prefix: CharSequence): String {  

    if (startsWith(prefix)) return substring(prefix.length)  

    return this  

}
    * If this char sequence ends with the given [suffix], returns a new char sequence with the suffix removed. Otherwise, returns a new char sequence with the same characters.  

public fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {  

    if (endsWith(suffix)) return subSequence(0, length - suffix.length)  

    return this  

}
    * If this string ends with the given [suffix], returns a copy of this string with the suffix removed. Otherwise, returns this string.  

public fun String.removeSuffix(suffix: CharSequence): String {  

    if (endsWith(suffix)) return substring(0, length - suffix.length)  

    return this  

}
    * When this char sequence starts with the given [prefix] and ends with the given [suffix], returns a new char sequence having both the given [prefix] and [suffix] removed.  

    * Otherwise returns a new char sequence with the same characters.  

public fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {  

    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) return subSequence(prefix.length, length - suffix.length)  

    return this  

}
    * Removes from a string both the given [prefix] and [suffix] if and only if it starts with the [prefix] and ends with the [suffix].  

    * Otherwise returns this string unchanged.  

public fun String.removeSurrounding(prefix:

```

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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: String, replacement: String,
missingDelimiterValue: String = this): String {\n  val index = lastIndexOf(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: Char, replacement: String, missingDelimiterValue: String = this): String {\n  val
index = lastIndexOf(delimiter)\n  return if (index == -1) missingDelimiterValue else replaceRange(index + 1,
length, replacement)\n}\n\n/**\n * Replace part of string before 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.replaceBeforeLast(delimiter: Char, replacement: String,
missingDelimiterValue: String = this): String {\n  val index = lastIndexOf(delimiter)\n  return if (index == -1)
missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string before 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.replaceBeforeLast(delimiter:
String, replacement: String, missingDelimiterValue: String = this): String {\n  val index = lastIndexOf(delimiter)\n
return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n// public fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun
String.replace(oldValue: String, newValue: String, ignoreCase:

```

Boolean): String // JVM- and JS-specific

`replace(regex: Regex, replacement: String): String` * 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.

`replace(regex: Regex, replacement: String): String` * 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.

`replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String` * 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.

`replaceFirst(regex: Regex, replacement: String): String` * 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.

`replaceFirstChar(transform: (Char) -> Char): String` * 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.

`replaceFirstChar(transform: (Char) -> CharSequence): String` * 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.

`matches(regex: Regex): Boolean` * Implementation of [regionMatches] for CharSequences. Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.

`regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean` * Returns true if this char sequence starts with the specified character.

`startsWith(char: Char, ignoreCase: Boolean = false): Boolean` * Returns true if this char sequence starts with the specified character.

`endsWith(char: Char, ignoreCase: Boolean = false): Boolean` * Returns true if this char sequence ends with the specified character.

`startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean` * Returns true if this char sequence starts with the specified prefix.

`startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean` * Returns true if a substring of this char sequence starting at the

```

specified offset [startIndex] starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix:
CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n
    if (!ignoreCase && this is String && prefix is String)\n        return this.startsWith(prefix, startIndex)\n    else\n        return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char
sequence ends with the specified suffix.\n */\npublic fun CharSequence.endsWith(suffix: CharSequence,
ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && suffix is String)\n        return
this.endsWith(suffix)\n    else\n        return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n\n// common prefix and suffix\n\n/**\n * Returns the longest string `prefix` such that this char
sequence and [other] char sequence both start with this prefix,\n * taking care not to split surrogate pairs.\n * If this
and [other] have no common prefix, returns the empty string.\n */\n * @param ignoreCase `true` to ignore character
case when matching a character. By default `false`.\n * @sample samples.text.Strings.commonPrefixWith\n
*/\npublic fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n
    val shortestLength = minOf(this.length, other.length)\n    var i = 0\n    while (i < shortestLength &&
this[i].equals(other[i], ignoreCase = ignoreCase)) {\n        i++\n    }\n    if (this.hasSurrogatePairAt(i - 1) ||
other.hasSurrogatePairAt(i - 1)) {\n        i--\n    }\n    return subSequence(0, i).toString()\n}\n\n/**\n * Returns the
longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n * taking
care not to split surrogate pairs.\n * If this and [other] have no common suffix, returns the empty string.\n */\n *
@param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @sample
samples.text.Strings.commonSuffixWith\n
*/\npublic fun CharSequence.commonSuffixWith(other: CharSequence,
ignoreCase: Boolean = false): String {\n    val thisLength = this.length\n
    val otherLength = other.length\n    val shortestLength = minOf(thisLength, otherLength)\n    var i = 0\n    while
(i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n
        i++\n    }\n    if (this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n
        i--\n    }\n    return subSequence(thisLength - i, thisLength).toString()\n}\n\n// indexOfAny()\n\n/**\n * Finds the
index of the first occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified
[startIndex] and optionally ignoring the case.\n */\n * @param ignoreCase `true` to ignore character case when
matching a character. By default `false`.\n * @return An index of the first occurrence of matched character from
[chars] or -1 if none of [chars] are found.\n */\n */\npublic fun CharSequence.indexOfAny(chars: CharArray,
startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    if
(!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single()\n        return
nativeIndexOf(char, startIndex)\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 */\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    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    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    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

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        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    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 * 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 * 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`.\n * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.\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.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n    findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\n\n/**\n * Finds the index of 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 An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.\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.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =\n    findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\n\n/**\n * Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the first occurrence

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of [char] or -1 if none is found.\n */\npublic fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n        indexOfAny(charArrayOf(char), startIndex, ignoreCase)\n    else\n        nativeIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the first occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the first occurrence of [string] or -1 if none is found.\n */\n\n * @sample samples.text.Strings.indexOf\n */\npublic fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n        indexOf(string, startIndex, length, ignoreCase)\n    else\n        nativeIndexOf(string, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified character,\n * starting from the specified [startIndex].\n *\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 [char] or -1 if none is found.\n */\n\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\n    else\n        nativeLastIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\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 An index of the last occurrence of [string] or -1 if none is found.\n */\n\npublic fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n        indexOf(string, startIndex, 0, ignoreCase, last = true)\n    else\n        nativeLastIndexOf(string, startIndex)\n}\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.\n *\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n */\n\n * @Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n    indexOf(other, ignoreCase = ignoreCase) >= 0\n    else\n        indexOf(other, 0, length, ignoreCase) >= 0\n}\n\n/**\n * Returns `true` if this char sequence contains the specified character [char].\n *\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n */\n\n * @Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\npublic operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =\n    indexOf(char, ignoreCase = ignoreCase) >= 0\n}\n\n/**\n * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].\n */\n\n * @kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean =\n    regex.containsMatchIn(this)\n\n\n//\n\nrangesDelimitedBy\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    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        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 =\n                        currentStartIndex..input.lastIndex\n                        nextSearchIndex\n                    = -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 ==

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0) 1 else 0\n          }\n          }\n          nextState = 1\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          override fun hasNext(): Boolean {\n          if (nextState
== -1)\n          calcNext()\n          return nextState == 1\n          }\n          }\n          }\n          *\n          Returns a sequence of index
ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n          *\n          @param
delimiters One or more characters to be used as delimiters.\n          *\n          @param startIndex The index to start searching
delimiters from.\n          *\n          No range having its start value less than [startIndex] is returned.\n          *\n          [startIndex] is coerced to
be non-negative and not greater than length of this string.\n          *\n          @param ignoreCase `true` to ignore character case
when matching a delimiter. By default `false`.\n          *\n          @param limit The maximum number of substrings to return. Zero
by default means no limit is set.\n          *\n          ^\n          private 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          *\n          Returns a sequence of index ranges of substrings in this char sequence
around occurrences of the specified [delimiters].\n          *\n          @param delimiters One or more strings to be used as
delimiters.\n          *\n          @param startIndex The index to start searching delimiters from.\n          *\n          No range having its start value
less than [startIndex] is returned.\n          *\n          [startIndex] is coerced to be non-negative and not greater than length of this
string.\n          *\n          @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n          *\n          @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n          *\n          *\n          To avoid
ambiguous results when strings in [delimiters] have characters in common, this method
proceeds from\n          *\n          the beginning to the end of this string, and finds at each position the first element in
[delimiters]\n          *\n          that matches this string at that position.\n          *\n          ^\n          private 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          }\n          return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->
findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length }\n          })\n          }\n          }\n          internal fun requireNonNegativeLimit(limit: Int) =\n          require(limit >= 0) { "Limit must be non-
negative, but was $limit" }\n          }\n          }\n          // split\n          *\n          Splits this char sequence to a sequence of strings around
occurrences of the specified [delimiters].\n          *\n          @param delimiters One or more strings to be used as delimiters.\n          *\n          @param ignoreCase `true` to ignore character
case when matching a delimiter. By default `false`.\n          *\n          @param limit The maximum number of substrings to return.
Zero by default means no limit is set.\n          *\n          *\n          To avoid ambiguous results when strings in [delimiters] have
characters in common, this method proceeds from\n          *\n          the beginning to the end of this string, and finds at each
position the first element in [delimiters]\n          *\n          that matches this string at that position.\n          *\n          ^\n          public 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          *\n          Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n          *\n          @param delimiters One or more strings to be used as delimiters.\n          *\n          @param ignoreCase `true` to ignore character
case when matching a delimiter. By default `false`.\n          *\n          @param limit The maximum number of substrings to return.
Zero by default means no limit is set.\n          *\n          *\n          To avoid ambiguous results when strings in [delimiters] have
characters in common, this method proceeds from\n          *\n          the beginning to the end of this string, and matches at each
position the first element in [delimiters]\n          *\n          that is equal to a delimiter in this instance at that position.\n          *\n          ^\n          public 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          }\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

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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 = 0\n    var nextIndex = indexOf(delimiter, currentOffset,
ignoreCase)\n    if (nextIndex == -1 || limit == 1) {\n        return listOf(this.toString())\n    }\n    val isLimited =
limit > 0\n    val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)\n    do {\n
result.add(substring(currentOffset, nextIndex))\n        currentOffset
= nextIndex + delimiter.length\n        // Do not search for next occurrence if we're reaching limit\n        if (isLimited
&& result.size == limit - 1) break\n        nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n    } while
(nextIndex != -1)\n    result.add(substring(currentOffset, length))\n    return result\n}\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.InlineOnly\npublic 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.splitToSequence\n
*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
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 * 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

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    if (!this[i].equals(other[i], ignoreCase = true)) {\n        return false\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 * and throws an exception otherwise.\n * There is also a lenient version of the
function available on nullable String, [String?.toBoolean].\n * Note that this function is case-sensitive.\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 * and `null` otherwise.\n * There is also a lenient version of the function available on
nullable String, [String?.toBoolean].\n * Note that this function is case-sensitive.\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 2010-2022 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
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 * 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 * 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\n /**
Returns the number of elements in the array. *\n public override val size: Int get() = storage.size\n    /** Creates
an iterator over the elements of the array. *\n public override operator fun iterator():
kotlin.collections.Iterator<UByte> = Iterator(storage)\n\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\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\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 *\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

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elements: UByte): UByteArray = elements\n", "/*\n * Copyright 2010-2022 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 * \n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n * \n public
operator fun get(index: Int): UInt = storage[index].toInt()\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 [IndexOutOfBoundsExcep] except in Kotlin/JS\n * where the behavior is unspecified.\n\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++].toInt() 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 * \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\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
uintArrayOf(vararg elements: UInt): UIntArray = elements\n", "/*\n * Copyright 2010-2022 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
[IndexOutOfBoundsExcep] 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 [IndexOutOfBoundsExcep] 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\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\n**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\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\npublic 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\npublic inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements\n\n,**\n * Copyright 2010-2022 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() {\n    private var index = 0\n    override fun hasNext() = index < array.size\n    override fun
nextUShort() = if (index < array.size) array[index++].toUShort() else throw
NoSuchElementException(index.toString())\n    }\n\n    override fun contains(element: UShort): 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 UShort)
return false\n\n    return storage.contains(element.toShort())\n    }\n\n    override fun containsAll(elements:
Collection<UShort>): Boolean {\n    return (elements as Collection<*>).all { it is UShort &&
storage.contains(it.toShort()) }\n    }\n\n    override fun isEmpty(): Boolean = this.storage.size == 0\n\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 * \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\npublic inline fun
UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n    return UShortArray(ShortArray(size) { index ->

```

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init(index).toShort()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ushortArrayOf(vararg elements: UShort): UShortArray = 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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UArraysKt")\n@file:kotlin.jvm.JvmPacka
geName("kotlin.collections.unsigned")\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun UIntArray.component1(): UInt {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component1(): ULong {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component1(): UByte {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component1(): UShort {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component2(): UInt {\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
ULongArray.component2(): ULong {\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
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

```

UByteArray.component3(): ULong {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \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 *\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 *\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 *\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 *\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 *\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

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*\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

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*\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
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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(): UByte {\n    return storage.first().toUByte()\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
UShortArray.first(): UShort {\n    return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no
such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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ULongArray.first(predicate: (ULong) -> Boolean): ULong {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.first(predicate: (UByte) -> Boolean): UByte {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {\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, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun ULongArray.firstOrNull(): ULong? {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.firstOrNull(): UByte? {\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.firstOrNull(): UShort? {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@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

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array.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.getOrNull(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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.getOrNull(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.getOrNull\n
*\n@SinceKotlin("1.3")\n@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 * @sample samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@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 * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@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 * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@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")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n    return storage.indexOfFirst {

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predicate(it.toUShort()) } }\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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n
    return storage.indexOfLast { predicate(it.toUInt()) } }\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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfLast {\n
predicate(it.toULong()) } }\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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfLast {\n
predicate(it.toUByte()) } }\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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n    return storage.indexOfLast {\n
predicate(it.toUShort()) } }\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")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.last(): UByte {\n    return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\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@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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n

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    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@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@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@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@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@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@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@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@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@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
*\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

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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
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\npublic
inline fun UIntArray.randomOrNull(): UInt? {\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@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\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@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.randomOrNull(): UByte? {\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@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.randomOrNull(): UShort?

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    { \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@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun UIntArray.randomOrNull(random: Random): UInt? {\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@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun ULongArray.randomOrNull(random: Random): ULong? {\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@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic
fun UByteArray.randomOrNull(random: Random): UByte? {\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@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\np
ublic fun UShortArray.randomOrNull(random: Random): UShort? {\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(): UInt {\n    return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or 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\npublic
inline fun ULongArray.single(): ULong {\n    return storage.single().toULong()\n}\n\n/**\n * Returns the single
element, or 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\npublic inline fun
UByteArray.single(): UByte {\n    return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or
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\npublic inline fun
UShortArray.single(): UShort {\n    return storage.single().toUShort()\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
UIntArray.single(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) 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 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 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
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

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UByteArray.single(predicate: (UByte) -> Boolean): UByte {
    var single: UByte? = 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 UByte
}

* Returns the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.single(predicate: (UShort) -> Boolean): UShort {
    var single: UShort? = 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 UShort
}

* Returns single element, or `null` if
the array is empty or has more than one element.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(): UInt? {
    return if (size == 1) this[0]
    else null
}

* Returns single element, or `null` if the array is empty or has more than one element.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
public fun ULongArray.singleOrNull(): ULong? {
    return if (size == 1) this[0] else null
}

* Returns single element, or `null` if the array is empty or has more
than one element.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
public fun
UByteArray.singleOrNull(): UByte? {
    return if (size == 1) this[0] else null
}

* Returns single element,
or `null` if the array is empty or has more than one element.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
public fun UShortArray.singleOrNull(): UShort? {
    return if (size == 1) this[0] else null
}

* Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
    var single: UInt? = null
    var found
= false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single =
element
            found = true
        }
        if (!found) return null
    }
    return single
}

* Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {
    var single: ULong? = null
    var
found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single
= element
            found = true
        }
        if (!found) return null
    }
    return single
}

* Returns the
single element matching the given
[predicate], or `null` if element was not found or more than one element was found.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = null
    var found =
false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single =
element
            found = true
        }
        if (!found) return null
    }
    return single
}

* Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.

* Since Kotlin("1.3") ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = null
    var
found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single
= element
            found = true
        }
        if (!found) return null
    }
    return single
}

* Returns a list containing all elements except first [n] elements.
* @throws IllegalArgumentException if [n] is
negative.
* @sample samples.collections.Collections.Transformations.drop

* Since Kotlin("1.3") ExperimentalUnsignedTypes
public fun UIntArray.drop(n: Int): List<UInt> {

```



```

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@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@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@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@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@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@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@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

```

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*\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@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 *
\n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@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

```

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*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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 itselfn * and returns the result of predicate
evaluation on the element.n * n * @sample samples.collections.Collections.Filtering.filterIndexedn
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
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 itselfn * and
returns the result of predicate evaluation on the element.n * n * @sample
samples.collections.Collections.Filtering.filterIndexedn
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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 itselfn * and
returns the result of predicate evaluation
on the element.n * n * @sample samples.collections.Collections.Filtering.filterIndexedn
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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 itselfn * and
returns the result of predicate evaluation on the element.n * n * @sample
samples.collections.Collections.Filtering.filterIndexedn
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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 itselfn * and returns the result of
predicate evaluation on the element.n * n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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 destinationn}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 itselfn * and returns the result of
predicate evaluation on the element.n * n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun <C : 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 destinationn}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 itselfn * and returns the result of predicate evaluation on the element.n * n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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 destinationn}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 itselfn * and returns the result of predicate evaluation on the element.n * n *

```

```

@sample samples.collections.Collections.Filtering.filterIndexedTo\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@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@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@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@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@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@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@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
(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 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 UByteArray.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

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containing elements of this array at specified [indices].\n

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*\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 * 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
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@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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic

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fun UIntArray.takeLast(n: Int): List<UInt> {
    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(this[size - 1])
    val list = ArrayList<UInt>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
// Returns a list containing last [n] elements.
// @throws IllegalArgumentException if [n] is negative.
// @sample samples.collections.Collections.Transformations.take

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnpublic fun ULongArray.takeLast(n: Int): List<ULong>
{
    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(this[size - 1])
    val list = ArrayList<ULong>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
// Returns a list containing last [n] elements.
// @throws IllegalArgumentException if [n] is negative.
// @sample samples.collections.Collections.Transformations.take

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnpublic fun UByteArray.takeLast(n: Int): List<UByte>
{
    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(this[size - 1])
    val list = ArrayList<UByte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
// Returns a list containing last [n] elements.
// @throws IllegalArgumentException if [n] is negative.
// @sample samples.collections.Collections.Transformations.take

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesnpublic fun UShortArray.takeLast(n: Int): List<UShort>
{
    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(this[size - 1])
    val list = ArrayList<UShort>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
// Returns a list containing last elements satisfying the given [predicate].
// @sample samples.collections.Collections.Transformations.take

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    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

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    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

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    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

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    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

*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {
    val list = ArrayList<UInt>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}
// Returns a list

```

```

containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n val list =
ArrayList<ULong>()\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
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n val list = ArrayList<UByte>()\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
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n val list =
ArrayList<UShort>()\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.reverse(): Unit {\n storage.reverse()\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
UIntArray.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
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
(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
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

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*\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
*\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):

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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

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray.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 descending according to their
natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UIntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

Sorts elements
in the array in-place descending according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortDescending(): Unit {
    if
(size > 1)
{
        sort()
        reverse()
    }
}

Sorts elements in the array in-place descending according to their
natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
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    }
}

Sorts
elements in the array in-place descending according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortDescending(): Unit {
    if
(size > 1) {
        sort()
        reverse()
    }
}

Returns a list of all elements sorted according to their
natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sorted():
List<UInt> {
    return copyOf().apply { sort() }.asList()
}

Returns a list of all elements sorted
according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
ULongArray.sorted():
List<ULong> {
    return copyOf().apply { sort() }.asList()
}

Returns a list of all elements sorted
according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UByteArray.sorted(): List<UByte> {
    return copyOf().apply { sort() }.asList()
}

Returns a list of all
elements sorted according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sorted(): List<UShort> {
    return copyOf().apply { sort() }.asList()
}

Returns an array with all elements of this array sorted
according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
UIntArray.sortedArray(): UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort()
}
}

Returns an array with all elements of this array sorted according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public
fun ULongArray.sortedArray(): ULongArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort()
}
}

Returns an array with all elements of this array sorted according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortedArray(): UByteArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

Returns an array with all elements
of this array sorted according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sortedArray(): UShortArray
{
    if (isEmpty()) return this
    return this.copyOf().apply { sort() }
}

Returns an array with all
elements of this array sorted descending according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedArrayDescending():
UIntArray {
    if (isEmpty()) return this
    return this.copyOf().apply
{
        sortDescending()
    }
}

Returns an array with all elements of this array sorted descending according to
their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
ULongArray.sortedArrayDescending(): ULongArray {
    if (isEmpty()) return this
    return this.copyOf().apply {
        sortDescending()
    }
}

Returns an array with all elements of this array sorted descending according to
their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun

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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 * \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public 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
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public 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 * \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public 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
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public
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
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public 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 * \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public 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
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public inline fun
UIntArray.asIntArray(): IntArray { \n  return storage \n} \n \n /** \n * Returns a [List] that wraps the original array. \n
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public expect fun UIntArray.asList():
List<UInt> \n \n /** \n * Returns a [List] that wraps the original array. \n
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public expect fun ULongArray.asList():
List<ULong> \n \n /** \n * Returns a [List] that wraps the original array. \n
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public expect fun UByteArray.asList():
List<UByte> \n \n /** \n * Returns a [List] that wraps the original array. \n
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n public 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
* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public 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 * \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public 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 * \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public 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 \n public inline fun

```

```

IntArray.asUIntArray(): UIntArray {
    return UIntArray(this)
}

/**
 * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
LongArray.asULongArray(): ULongArray {
    return ULongArray(this)
}

/**
 * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ShortArray.asUShortArray(): UShortArray {
    return UShortArray(this)
}

/**
 * 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.
 *
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.3")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 * @ExperimentalUnsignedTypes
 * public infix fun UIntArray.contentEquals(other: UIntArray): Boolean {
 *     return this.contentEquals(other)
 * }

/**
 * 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.
 *
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.3")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 * @ExperimentalUnsignedTypes
 * public infix fun ULongArray.contentEquals(other: ULongArray): Boolean {
 *     return this.contentEquals(other)
 * }

/**
 * 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.
 *
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.3")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 * @ExperimentalUnsignedTypes
 * public infix fun UByteArray.contentEquals(other: UByteArray): Boolean {
 *     return this.contentEquals(other)
 * }

/**
 * 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.
 *
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.3")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 * @ExperimentalUnsignedTypes
 * public infix fun UShortArray.contentEquals(other: UShortArray): Boolean {
 *     return this.contentEquals(other)
 * }

/**
 * 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.
 *
 * @SinceKotlin("1.4")
 * @ExperimentalUnsignedTypes
 * public
 * infix fun UIntArray?.contentEquals(other: UIntArray?): Boolean {
 *     return
 *     this?.storage.contentEquals(other?.storage)
 * }

/**
 * 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.
 *
 * @SinceKotlin("1.4")
 * @ExperimentalUnsignedTypes
 * public infix fun
 * ULongArray?.contentEquals(other: ULongArray?): Boolean {
 *     return this?.storage.contentEquals(other?.storage)
 * }

/**
 * 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.
 *
 * @SinceKotlin("1.4")
 * @ExperimentalUnsignedTypes
 * public infix fun
 * UByteArray?.contentEquals(other: UByteArray?): Boolean {
 *     return
 *     this?.storage.contentEquals(other?.storage)
 * }

/**
 * 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.
 *
 * @SinceKotlin("1.4")
 * @ExperimentalUnsignedTypes
 * public infix fun
 * UShortArray?.contentEquals(other: UShortArray?): Boolean {
 *     return
 *     this?.storage.contentEquals(other?.storage)
 * }

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 *
 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
 * @SinceKotlin("1.3")
 * @DeprecatedSinceKotlin(hiddenSince = "1.4")
 * @ExperimentalUnsignedTypes
 * public fun UIntArray.contentHashCode(): Int {
 *     return
 *     this.contentHashCode()
 * }

/**
 * Returns a hash code based on the contents of this array as if it is [List].
 */

```

```

*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")^@SinceKotlin("1.3")^@DeprecatedSinceKotlin(hiddenSince =
"1.4")^@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 *^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")^@SinceKotlin("1.3")^@DeprecatedSinceKotlin(hiddenSince =
"1.4")^@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
*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")^@SinceKotlin("1.3")^@DeprecatedSinceKotlin(hiddenSince =
"1.4")^@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
*^@SinceKotlin("1.4")^@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 *^@SinceKotlin("1.4")^@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
*^@SinceKotlin("1.4")^@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 *^@SinceKotlin("1.4")^@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 * @sample
samples.collections.Arrays.ContentOperations.contentToString\n *^@Deprecated("Use Kotlin compiler 1.4 to
avoid deprecation warning.")^@SinceKotlin("1.3")^@DeprecatedSinceKotlin(hiddenSince =
"1.4")^@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 * @sample samples.collections.Arrays.ContentOperations.contentToString\n *^@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")^@SinceKotlin("1.3")^@DeprecatedSinceKotlin(hiddenSince =
"1.4")^@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 * @sample samples.collections.Arrays.ContentOperations.contentToString\n *^@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")^@SinceKotlin("1.3")^@DeprecatedSinceKotlin(hiddenSince =
"1.4")^@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 * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")^@SinceKotlin("1.3")^@DeprecatedSinceKotlin(hiddenSince =
"1.4")^@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 * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*^@SinceKotlin("1.4")^@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
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentToString(): String

```

```

    {
        return this?.joinToString(", ", "[", "]") ?: "null"
    }
}

Returns a string representation of the contents of the specified array as if it is [List].

@sample
samples.collections.Arrays.ContentOperations.contentToString

@SinceKotlin("1.4")@ExperimentalUnsignedTypes
public fun UByteArray?.contentToString(): String {
    return this?.joinToString(", ", "[", "]") ?: "null"
}

Returns a string representation of the contents of the specified array as if it is [List].

@sample
samples.collections.Arrays.ContentOperations.contentToString

@SinceKotlin("1.4")@ExperimentalUnsignedTypes
public fun UShortArray?.contentToString(): String {
    return this?.joinToString(", ", "[", "]") ?: "null"
}

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")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.copyInto(
    destination: UIntArray,
    destinationOffset: Int = 0,
    startIndex: Int = 0,
    endIndex: Int = size): UIntArray {
    storage.copyInto(destination.storage, 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")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.copyInto(
    destination: ULongArray,
    destinationOffset: Int = 0,
    startIndex: Int = 0,
    endIndex: Int = size): ULongArray {
    storage.copyInto(destination.storage, 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")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.copyInto(
    destination: UByteArray,
    destinationOffset: Int = 0,
    startIndex: Int = 0,
    endIndex: Int = size): UByteArray {
    storage.copyInto(destination.storage, 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.

```
*\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 * Returns new array which is a copy of  
the original array.\n * @sample samples.collections.Arrays.CopyOfOperations.copyOf
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.copyOf(): UIntArray {\n    return UIntArray(storage.copyOf())\n}\n/**\n * Returns new array which is  
a copy of the original array.\n * @sample samples.collections.Arrays.CopyOfOperations.copyOf
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.copyOf(): ULongArray {\n    return ULongArray(storage.copyOf())\n}\n/**\n * Returns new array  
which is a copy of the original array.\n * @sample samples.collections.Arrays.CopyOfOperations.copyOf
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline fun UByteArray.copyOf(): UByteArray {\n    return UByteArray(storage.copyOf())\n}\n/**\n * Returns  
new array which is a copy of the original array.\n * @sample  
samples.collections.Arrays.CopyOfOperations.copyOf
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.copyOfOf(): UShortArray {\n    return UShortArray(storage.copyOfOf())\n}\n/**\n * Returns new array  
which is a copy of the original array, resized to the given [newSize].  
The copy is either truncated or padded at  
the end with zero values if necessary.  
- If [newSize] is less than the size of the original array, the copy array  
is truncated to the [newSize].  
- If [newSize] is greater than the size of the original array, the extra elements in the  
copy array are filled with zero values.
```

```
*\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 * Returns new array which is a copy  
of the original array, resized to the given [newSize].  
The copy is either truncated or padded at the end with zero  
values if necessary.  
- If [newSize] is less than the size of the original array, the copy array is truncated to the  
[newSize].  
- If [newSize] is greater than the size of the original array, the extra elements in the copy array are  
filled with zero values.
```

```
*\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 * Returns new array which is a copy of the original array, resized to the given [newSize].  
The copy is either  
truncated or padded at the end with zero values if necessary.  
- If [newSize] is less than the size of the  
original array, the copy array is truncated
```

```
to the [newSize].  
- If [newSize] is greater than the size of the original array, the extra elements in the copy array  
are filled with zero values.
```

```
*\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 * Returns new array which is a copy of the original array, resized to the given [newSize].  
The copy is either  
truncated or padded at the end with zero values if necessary.  
- 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  
UShortArray.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 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n    return  
UIntArray(storage.copyOfRange(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
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return  
ULongArray(storage.copyOfRange(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
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return  
UByteArray(storage.copyOfRange(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
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n    return  
UShortArray(storage.copyOfRange(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 UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(), 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 ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toLong(), 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 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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n    var index = size\n    val result =
storage.copyOfOf(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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n    var index = size\n    val result =
storage.copyOfOf(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
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UByteArray.plus(elements:

```

```

Collection<UByte>): UByteArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return UByteArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UShortArray.plus(elements: Collection<UShort>): UShortArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toShort()
    return UShortArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {
    return UIntArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {
    return ULongArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {
    return UByteArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage + elements.storage)
}

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sort(): Unit {
    if (size > 1) sortArray(this, 0, size)
}

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sort(): Unit {
    if (size > 1) sortArray(this, 0, size)
}

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sort(): Unit {
    if (size > 1) sortArray(this, 0, size)
}

/**
 * Sorts the array in-place.
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sort(): Unit {
    if (size > 1) sortArray(this, 0, size)
}

/**
 * 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")
@ExperimentalUnsignedTypes
public fun UIntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    sortArray(this, fromIndex, toIndex)
}

/**
 * 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")
@ExperimentalUnsignedTypes
public fun ULongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    sortArray(this, fromIndex, toIndex)
}

/**
 * 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.\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
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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 of the corresponding element of this array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
UByteArray.toByteArray(): UByteArray {
    return storage.copyOf()
}

```

* Returns an array of type [UByteArray], which is a copy of this array where each element is a signed reinterpretation of the corresponding element of this array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
UShortArray.toShortArray(): ShortArray {
    return storage.copyOf()
}

```

* Returns a *typed* object array containing all of the elements of this primitive array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes public fun
UIntArray.toArray(): Array<UInt> {
    return Array(size) { index -> this[index] }
}

```

* Returns a *typed* object array containing all of the elements of this primitive array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes public fun
UByteArray.toArray(): Array<UByte> {
    return Array(size) { index -> this[index] }
}

```

* Returns a *typed* object array containing all of the elements of this primitive array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes public fun
UShortArray.toArray(): Array<UShort> {
    return Array(size) { index -> this[index] }
}

```

* Returns an array of UByte containing all of the elements of this generic array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes public fun
Array<out UByte>.toUByteArray(): UByteArray {
    return UByteArray(size) { index -> this[index] }
}

```

* Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
ByteArray.toByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

```

* Returns an array of UInt containing all of the elements of this generic array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes public fun
Array<out UInt>.toUIntArray(): UIntArray {
    return UIntArray(size) { index -> this[index] }
}

```

* Returns an array of type [UIntArray], which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
IntArray.toUIntArray(): UIntArray {
    return UIntArray(this.copyOf())
}

```

* Returns an array of ULong containing all of the elements of this generic array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes public fun
Array<out ULong>.toULongArray(): ULongArray {
    return ULongArray(size) { index -> this[index] }
}

```

* Returns an array of type [ULongArray], which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
LongArray.toULongArray(): ULongArray {
    return ULongArray(this.copyOf())
}

```

* Returns an array of UShort containing all of the elements of this generic array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes public fun
Array<out UShort>.toUShortArray(): UShortArray {
    return UShortArray(size) { index -> this[index] }
}

```

* Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation of the corresponding element of this array.

```

* Since Kotlin("1.3") ExperimentalUnsignedTypes @kotlin.internal.InlineOnly public inline fun
ShortArray.toUShortArray(): UShortArray {
    return UShortArray(this.copyOf())
}

```

* 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.

```

\n * @sample samples.collections.Collections.Transformations.associateWith\n
*\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\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@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\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@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\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@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,\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")\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,\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")\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,\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")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> 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.

```
samples.collections.Collections.Transformations.associateWithTo\n\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\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*\n\n@sample\nsamples.collections.Collections.Transformations.flatMap\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\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*\n\n@sample\nsamples.collections.Collections.Transformations.flatMap\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\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*\n\n@sample\nsamples.collections.Collections.Transformations.flatMap\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\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*\n\n@sample\nsamples.collections.Collections.Transformations.flatMap\n\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n**\n\n* 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.\n\n*\n\n@sample\nsamples.collections.Collections.Transformations.flatMapIndexed\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n**\n\n* 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.\n\n*\n\n@sample\nsamples.collections.Collections.Transformations.flatMapIndexed\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n**\n\n* 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.\n\n*\n\n@sample\nsamples.collections.Collections.Transformations.flatMapIndexed\n\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n    return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n**\n\n* 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.\n\n*\n\n@sample\nsamples.collections.Collections.Transformations.flatMapIndexed\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>
UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> 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 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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) ->
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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination:
C, transform: (index: Int, ULong) -> 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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) ->
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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) ->
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 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>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> 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>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> 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>> 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\n public
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\n public 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\n public 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\n public 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\n public
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\n public 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\n public inline fun <K, V>
ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> 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. The returned map preserves the entry iteration order of the keys produced from the original array.

```

@sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <K, V>
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> 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 arrayn * by the key returned by
the given [keySelector] function applied to the elementn * 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@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <K, V>
UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> 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] functionn * 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@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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) { ArrayList<UInt>() }n list.add(element)n }n return
destinationn}n/n/**n * Groups elements of the original array by the key returned by the given [keySelector]
functionn * 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@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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) {
ArrayList<ULong>() }n list.add(element)n }n return destinationn}n/n/**n * Groups elements of the
original array by the key returned by the given [keySelector] functionn * 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@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic 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) {
ArrayList<UByte>() }n list.add(element)n }n return destinationn}n/n/**n * Groups elements of the
original array by the key returned by the given [keySelector] functionn * 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@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic
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 destinationn}n/n/**n
* Groups values returned by the [valueTransform] function applied to each element of the original arrayn * by the
key returned by the given [keySelector] function applied to the elementn * 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@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun <K, V,

```

```

M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination:
M, keySelector: (UInt) -> K, valueTransform: (UInt) -> 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/**
 * Groups values returned by the
[valueTransform] function applied to each element of the original array
 * by the key returned by the given
[keySelector] function applied to the element
 * 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

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K,
valueTransform: (ULong) -> 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/**
 * Groups values returned by the
[valueTransform] function applied to each element of the original array
 * by the key returned by the given
[keySelector] function applied to the element
 * 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

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K,
valueTransform: (UByte) -> 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/**
 * Groups values returned by the [valueTransform] function applied to each
element of the original array
 * by the key returned by the given [keySelector] function applied to the element
 * 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

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K,
valueTransform: (UShort) -> 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/**
 * Returns a list containing the results of applying the
given [transform] function
 * to each element in the original array.
/n * /n * @sample
samples.collections.Collections.Transformations.map

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> {
return mapTo(ArrayList<R>(size), transform)
}

/n/n/**
 * Returns a list containing the results of applying the given [transform] function
 * to each element in the original
array.
/n * /n * @sample samples.collections.Collections.Transformations.map

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
ULongArray.map(transform: (ULong) -> R): List<R> {
return mapTo(ArrayList<R>(size),
transform)
}

/n/n/**
 * Returns a list containing the results of applying the given [transform] function
 * to each
element in the original array.
/n * /n * @sample samples.collections.Collections.Transformations.map

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> {
return mapTo(ArrayList<R>(size),
transform)
}

/n/n/**
 * Returns a list containing the results of applying the given [transform] function
 * to each
element in the original array.
/n * /n * @sample samples.collections.Collections.Transformations.map

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UShortArray.map(transform: (UShort) -> R): List<R> {
return mapTo(ArrayList<R>(size),
transform)
}

/n/n/**
 * Returns a list containing the results of applying the given [transform] function
 * 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
```

```
fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n    return\n    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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
```

```
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n    return\n    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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
```

```
fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n    return\n    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@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 {\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
```

```
*\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 {\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\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@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
```

```

*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
[IndexValue] containing the index of that element and the element itself.\n
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
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
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@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@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@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@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@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@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@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@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@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@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@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@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@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)
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>
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 [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>

```

```

UByteArray.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/**\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>
UShortArray.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/**\n * Performs the given [action] on each
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.forEach(action: (UShort) -> 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.forEachIndexed(action: (index: Int, UInt) -> 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEachIndexed(action: (index: Int, ULong) -> 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEachIndexed(action: (index: Int, UByte) -> 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.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

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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@OverloadResolution
ByLambdaReturnType\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@OverloadResolution
ByLambdaReturnType\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
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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
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ByLambdaReturnType\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
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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/**\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]

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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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
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/**\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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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/**\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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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/**\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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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/**\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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
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/**\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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxOf(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 (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

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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxOf(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 (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\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> 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\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOfOrNull(selector:
(ULong) -> 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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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.maxOfOrNull(selector: (UByte) -> 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\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOfOrNull(selector: (UShort) -> 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\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.maxOfOrNull(selector: (UInt) -> 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
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*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOfOrNull(selector: (ULong) -> Float): Float? {\n  if (isEmpty()) return

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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\n * 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\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 * \n * If any of values produced by\n [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.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 */\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.maxOfOrNull(selector: (UInt) -> 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\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\n Comparable<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\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\n * 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 :\n Comparable<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\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\ninline fun <R : Comparable<R>> UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {\n    if (isEmpty())\n    return 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 * according to the provided [comparator]\n * among all values produced by [selector] function applied to each\n * 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\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n UIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v

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= 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\n NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n    if (isEmpty()) throw\n NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return\n 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\n NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n UByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n    if (isEmpty()) throw\n NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return\n 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\n NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun <R> UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n    if\n (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\n 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, 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 (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return\n 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n    if (isEmpty())\n return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return\n 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n    if (isEmpty())\n return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if\n (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return\n maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n 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> UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n
if (isEmpty()) return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic 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
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic
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
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic 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
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic 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\n@Deprecated("Use maxWithOrNull
instead.", ReplaceWith("this.maxWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince
= "1.4", errorSince = "1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator:
Comparator<in UInt>): UInt? {\n return maxWithOrNull(comparator)\n}\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")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n return
maxWithOrNull(comparator)\n}\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")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n return
maxWithOrNull(comparator)\n}\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")\n@ExperimentalUnsignedTypes\npublic 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
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic 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
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxWithOrNull(comparator: Comparator<in 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@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

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*\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():
ULong? {\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
    UByteArray.min(): UByte? {\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 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.",
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>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\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")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<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@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)
{\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:

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(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
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Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {\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
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {\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 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@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
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.minOf(selector: (ULong) -> 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
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOf(selector: (UByte)
-> 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
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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
UShortArray.minOf(selector: (UShort) -> 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 =

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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@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]
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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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 =
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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.minOf(selector: (UByte) -> 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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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 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 :
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
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 :
Comparable<R>> ULongArray.minOf(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 (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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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 :
Comparable<R>> UByteArray.minOf(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 (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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minOf(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 (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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.minOfOrNull(selector: (ULong) -> 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOfOrNull(selector: (UByte) -> 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> 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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> 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]\n 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 ULongArray.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\n 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
```

```
UByteArray.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\n minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array or `null` if there are no elements.\n * \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
```

```
UShortArray.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 * \n * applied to each element in the array or `null`\n
```

```
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 :
```

```
Comparable<R>> UIntArray.minOfOrNull(selector: (UInt) -> 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\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 :
```

```
Comparable<R>> ULongArray.minOfOrNull(selector: (ULong) -> R): R? {\n if (isEmpty())\n return 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 :
```

```
Comparable<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         minValue = v\n     }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n produced by [selector] function\n * applied to each element\n
```

```
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 :
```

```

Comparable<R>> UShortArray.minOfOrNull(selector: (UShort) -> 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 * Returns the smallest value according to the\n 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\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n <R> UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\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    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return\n  minValue}\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 array.\n *\n * @throws NoSuchElementException if\n the array is empty.\n *\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n  if (isEmpty()) throw\n  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\n  minValue}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among\n all values produced by [selector] function applied to each element in the array.\n *\n * @throws\n NoSuchElementException if the array is empty.\n *\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\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    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return\n  minValue}\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 array.\n *\n * @throws\n NoSuchElementException if the array is empty.\n *\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\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    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return\n  minValue}\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 array or `null` if there are no elements.\n *\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun <R> UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n  if\n  (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =\n    selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return\n  minValue}\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 array or `null` if there are no elements.\n *\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\n ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n  if\n  (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =\n    selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return\n  minValue}\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 array or `null` if there are no elements.\n *\n */

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minValue}\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 * 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 * 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 * 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 * 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 * 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@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
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

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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@\n@SinceKotlin("1.4")\n@\n@ExperimentalUnsignedTypes\n\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@\n@SinceKotlin("1.4")\n@\n@ExperimentalUnsignedTypes\n\npublic fun UByteArray.minWithOrNull(comparator:
Comparator<in UByte>): UByte? {\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@\n@SinceKotlin("1.4")\n@\n@ExperimentalUnsignedTypes\n\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@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
UIntArray.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@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
ULongArray.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@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
UByteArray.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@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\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@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\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 *
*\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\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@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\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@\n@SinceKotlin("1.3")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\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@\n@SinceKotlin("1.4")\n@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
UIntArray.onEach(action: (UInt) -> Unit): UIntArray {\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@\n@ExperimentalUnsignedTypes\n\n@kotlin.internal.InlineOnly\n\npublic inline fun

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ULongArray.onEach(action: (ULong) -> Unit): ULongArray {
    return apply { for (element in this)
    action(element) }
}

/**
 * Performs the given [action] on each element and returns the array itself
 afterwards.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray
 {
    return apply { for (element in this) action(element) }
}

/**
 * Performs the given [action] on each
 element and returns the array itself afterwards.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.onEach(action: (UShort) -> Unit): UShortArray {
    return apply { for (element in this)
    action(element) }
}

/**
 * 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")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {
    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")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {
    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")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {
    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")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit): UShortArray {
    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.
 * \n * \n * 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.
 * \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.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun UIntArray.reduce(operation: (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(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.
 * \n * \n * 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.
 * \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.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public
inline fun ULongArray.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\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.reduce(operation: (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(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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduce(operation:
(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(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 UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {\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
ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\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
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

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(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
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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 (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
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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
*/\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    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 with the first element and applying [operation] from left to right to current accumulator value and each element.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceOrNull
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceOrNull(operation: (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(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 to current accumulator value and each element.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceOrNull
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceOrNull(operation: (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(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 to current accumulator value and each element.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceOrNull
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) -> UShort): UShort? {\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 with the last element and applying [operation] from right to left to each element and current accumulator value.\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 * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceRight
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun 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 accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value.\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 * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next

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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),
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 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

```
*\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 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

```
*\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 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

```
*\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 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

```
*\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
```

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

```
*\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  
index = lastIndex\n    if (index < 0) return null\n    var accumulator = get(index--)\n    while (index >= 0) {\n
```

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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 * 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>
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 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>
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

```

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")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <R>
ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> 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)
    }
    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")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <R>
UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> 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)
    }
    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")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun <R>
UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> 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)
    }
    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. 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.runningReduce
*^@SinceKotlin("1.4")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {
    if (isEmpty()) return emptyList()
    var accumulator = this[0]
    val result = ArrayList<UInt>(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. 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.runningReduce

```



```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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 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 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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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 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 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@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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
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\npublic 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 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\npublic
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 =

```

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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\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic 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\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic 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\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic

```

```

inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * 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
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.scan(initial: R, operation: (acc: R,
    UShort) -> R): List<R> {
    return runningFold(initial, operation)
}

/**
 * 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.scan
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R,
    UInt) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * 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.scan
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc:
    R, ULong) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * 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.scan
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc:
    R, UByte) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * 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.scan
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc:
    R, UShort) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/**
 * 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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0u\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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0u\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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n    var sum: UInt = 0u\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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0u\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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumByDouble(selector: (UInt) -> 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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sumByDouble(selector: (ULong) -> 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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.sumByDouble(selector: (UByte) -> 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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sumByDouble(selector: (UShort) -> 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\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sumOf(selector: (UInt) -> 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@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.sumOf(selector:

```

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(ULong) -> 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@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  }\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  }\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  }\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  }\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  }\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 UShortArray.sumOf(selector: (UShort) -> 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 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 UIntArray.sumOf(selector: (UInt)
-> 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
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")

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\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 +=
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@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
*\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 UShortArray.sumOf(selector:
(UShort) -> 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
*\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    }\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    }\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
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("sumOfUInt")\n
\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    }\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    }\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 collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\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>

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ULongArray.zip(other: Array<out R>, transform: (a: ULong, 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>
UByteArray.zip(other: Array<out R>, transform: (a: UByte, 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>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, 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 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:
Iterable<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` 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
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 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:
Iterable<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` 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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Iterable<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] 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>
UIntArray.zip(other: Iterable<R>, transform: (a: UInt, 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>
ULongArray.zip(other: Iterable<R>, transform: (a: ULong, 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)

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```

{\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\n * 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>\n    UByteArray.zip(other: Iterable<R>,\n        transform: (a: UByte, 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 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 samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>\n    UShortArray.zip(other: Iterable<R>,\n        transform: (a: UShort, 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\n    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\n * returned list has length of the shortest collection.\n * \n * @sample\n * samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):\n    List<Pair<UInt, UInt>> {\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 */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):\n    List<Pair<ULong, ULong>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns\n * a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list\n * 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):\n    List<Pair<UByte, UByte>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built\n * from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the\n * shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray):\n    List<Pair<UShort, UShort>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built\n * from the elements of `this` array and the [other] array with the same index\n * using the provided [transform]\n * function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample\n * samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\n    UIntArray.zip(other: UIntArray,\n        transform: (a: UInt, b: UInt) -> 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 array.\n * \n * @sample\n * samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>\n    ULongArray.zip(other: ULongArray,\n        transform: (a: ULong, b: ULong) -> 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

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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@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 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

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*\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 = 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 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 = 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 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 = 0u\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 *
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

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*\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@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\n See:
\n\nhttps://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\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(): 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

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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun UIntRange.contains(value: ULong): Boolean {\n    return (value shr UInt.SIZE_BITS) == 0uL && contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun

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UIntRange.contains(value: UShort): 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: UShort): 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:
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
*^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("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.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 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 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 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("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.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/\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 * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::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/*\n * Returns the sum of all elements in the sequence.\n * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::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/*\n * Returns the sum of all elements in the sequence.\n * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::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/*\n * Returns the sum of all elements in the sequence.\n * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::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}\n\n@Deprecated("The constructor
```

```
is not supported on all platforms and 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 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 {
    constructor()
    constructor(message: Any?)
}

public expect open class NoSuchElementException : RuntimeException {
    constructor()
    constructor(message: String?)
}

@SinceKotlin("1.3")
public expect open class ArithmeticException : RuntimeException {
    constructor()
    constructor(message: String?)
}

@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)
public expect open class NoWhenBranchMatchedException : RuntimeException {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

@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)
public expect class UninitializedPropertyAccessException : RuntimeException {
    constructor()
    constructor(message: String?)
    constructor(message: String?, cause: Throwable?)
    constructor(cause: Throwable?)
}

/*
 * Thrown after invocation of a function or property that was expected to return `Nothing`, but returned something instead.
 */
@SinceKotlin("1.4")
@PublishedApi
internal class KotlinNothingValueException : RuntimeException {
    constructor() : super()
    constructor(message: String?) : super(message)
    constructor(message: String?, cause: Throwable?) : super(message, cause)
    constructor(cause: Throwable?) : super(cause)
}

/*
 * Returns the detailed description of this throwable with its stack trace.
 *
 * The detailed description includes:
 * - the short description (see [Throwable.toString]) of this throwable;
 * - the complete stack trace;
 * - detailed descriptions of the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;
 * - the detailed description of each throwable in the [Throwable.cause] chain.
 */
@SinceKotlin("1.4")
public expect fun Throwable.stackTraceToString(): String

/*
 * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to the standard output or standard error output.
 */
@SinceKotlin("1.4")
@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
public expect fun Throwable.printStackTrace(): Unit

/*
 * When supported by the platform, adds the specified exception to the list of exceptions that were
 * suppressed in order to deliver this exception.
 */
@SinceKotlin("1.4")
@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
public expect fun Throwable.addSuppressed(exception: Throwable)

/*
 * Returns a list of all exceptions that were suppressed in order to deliver this exception.
 *
 * The list can be empty:
 * - if no exceptions were suppressed;
 * - if the platform doesn't support suppressed exceptions;
 * - if this [Throwable] instance has disabled the suppression.
 */
@SinceKotlin("1.4")
public expect val Throwable.suppressedExceptions: List<Throwable>

/*
 * 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
import kotlin.annotation.AnnotationTarget

/*
 * Gives a declaration (a function, a property or a class) specific name in JavaScript.
 */
@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)
@OptionalExpectation
public expect annotation class JsName(val name: String)

/*
 * Marks experimental JS export annotations.
 *
 * Note that behavior of these annotations will likely be changed in the future.
 *
 * Usages of such annotations will be reported as warnings unless an explicit opt-in with
 * the [OptIn] annotation, e.g.
 *
 * @OptIn(ExperimentalJsExport::class),
 * or with the -opt-in=kotlin.js.ExperimentalJsExport
 * compiler option is given.
 */
@RequiresOptIn(level = RequiresOptIn.Level.WARNING)
@MustBeDocumented
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.4")
public annotation class ExperimentalJsExport

/*
 * Exports top-level declaration on JS platform.
 *
 * Compiled module exposes declarations that are marked with this annotation without name mangling.
 *
 * This annotation can be applied to either files or top-level declarations.
 *
 * It is currently prohibited to export the following kinds of declarations:
 * - `expect` declarations
 * - inline functions with reified type parameters
 * - suspend functions
 * - secondary constructors without `@JsName`
 * - extension properties
 * - enum classes
 * - annotation classes
 *
 * Signatures of exported declarations must only contain "exportable" types:
 * - `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 public 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 /** Prints the line separator to the standard output stream. *\n public expect fun
println()\n /** Prints the given [message]
and the line separator to the standard output stream. *\n public expect fun println(message: Any?)\n /** Prints the
given [message] to the standard output stream. *\n public expect fun print(message: Any?)\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 public expect fun readln(): String\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 public expect fun readlnOrNull():
String?\n\n internal class ReadAfterEOFException(message: String?) : RuntimeException(message)\n\n\n internal
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\n import kotlin.internal.PlatformDependent\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 public interface
Iterable<out T> {\n // **\n * Returns an iterator over the elements of this object.\n *\n public operator fun
iterator(): Iterator<T>\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 *\n
@param T the type of element being iterated over. The mutable iterator is invariant in its element type.\n *\n public
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 override fun iterator():
MutableIterator<T>\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 public interface
Collection<out E> : Iterable<E> {\n // Query Operations\n // **\n * Returns the size of the collection.\n *\n public
val size: Int\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 * 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

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* @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
* Removes a single instance of the specified element from this\n
* collection, if it is present.\n
*\n
* @return\n
`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
// Bulk Modification Operations\n
/**\n
* Adds all of the elements of\n
the specified collection to this collection.\n
*\n
* @return `true` if any of the specified elements was added to\n
the collection, `false` if the collection was not modified.\n
*/\n
public fun addAll(elements: Collection<E>):\n
Boolean\n
/**\n
* Removes all of this collection's elements that are also contained in the specified\n
collection.\n
*\n
* @return `true` if any of\n
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
* Retains only the elements in this collection that\n
are contained in the specified collection.\n
*\n
* @return `true` if any element was removed from the\n
collection, `false` if the collection was not modified.\n
*/\n
public fun retainAll(elements: Collection<E>):\n
Boolean\n
/**\n
* Removes all elements from this collection.\n
*/\n
public fun clear(): Unit\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
* @param E the type of elements contained in\n
the list. The list is covariant in its element type.\n
*/\n
public interface List<out E> : Collection<E> {\n
// Query\n
Operations\n
override val size: Int\n
override fun isEmpty():\n
Boolean\n
override fun contains(element: @UnsafeVariance E): Boolean\n
override fun iterator():\n
Iterator<E>\n
// Bulk Operations\n
override fun containsAll(elements: Collection<@UnsafeVariance E>):\n
Boolean\n
// Positional Access Operations\n
/**\n
* Returns the element at the specified index in the list.\n
*/\n
public operator fun get(index: Int): E\n
// Search Operations\n
/**\n
* Returns the index of the first\n
occurrence of the specified element in the list, or -1 if the specified\n
* element is not contained in the list.\n
*/\n
public fun indexOf(element: @UnsafeVariance E): Int\n
/**\n
* Returns the index of the last\n
occurrence of the specified element in the list, or -1 if the specified\n
* element is not contained in the list.\n
*/\n
public fun lastIndexOf(element: @UnsafeVariance E): Int\n
// List Iterators\n
/**\n
* Returns a list\n
iterator over the elements in this list (in proper sequence).\n
*/\n
public fun listIterator(): ListIterator<E>\n
/**\n
* Returns a list iterator over the elements in this list\n
(in proper sequence), starting at the specified [index].\n
*/\n
public fun listIterator(index: Int):\n
ListIterator<E>\n
// View\n
/**\n
* Returns a view of the portion of this list between the specified\n
[fromIndex] (inclusive) and [toIndex] (exclusive).\n
* The returned list is backed by this list, so non-structural\n
changes in the returned list are reflected in this list, and vice-versa.\n
*\n
* Structural changes in the base list\n
make the behavior of the view undefined.\n
*/\n
public fun subList(fromIndex: Int, toIndex: Int):\n
List<E>\n
}\n
/**\n
* A generic ordered collection of elements that supports adding and removing elements.\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\n
`true` because the list is always modified as the result of this operation.\n
*/\n
override fun add(element: E):\n
Boolean\n
override fun remove(element: E): Boolean\n
// Bulk Modification Operations\n
/**\n
* Adds\n
all of the elements of the specified collection to the end of this list.\n
*\n
* The elements are appended in the\n
order they appear in the [elements] collection.\n
*\n
* @return `true` if the list was changed as the result of the\n
operation.\n
*/\n
override fun addAll(elements: Collection<E>): Boolean\n
/**\n
* Inserts all of the\n
elements of the specified collection [elements] into this list at the specified [index].\n
*\n
* @return `true` if the\n
list was changed as the result of the operation.\n
*/\n
public fun addAll(index: Int, elements: Collection<E>):\n
Boolean\n
override fun removeAll(elements:\n
Collection<E>): Boolean\n
override fun retainAll(elements: Collection<E>): Boolean\n
override fun clear():\n
Unit\n
// Positional Access Operations\n
/**\n
* Replaces the element at the specified position in this list\n
with the specified element.\n
*\n
* @return the element previously at the specified position.\n
*/\n
public

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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\n 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):\n MutableListIterator<E>\n\n // View\n override fun subList(fromIndex: Int, toIndex: Int):\n MutableList<E>\n}\n\n/**\n * A generic\n unordered collection of elements that does not support duplicate elements.\n * Methods in this interface support\n only read-only access to the set;\n * read/write access is supported through the [MutableSet] interface.\n * @param\n E the type of elements contained in the set. The set is covariant in its element type.\n *\n public interface Set<out E>\n : 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\n Operations\n\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A\n generic unordered collection of elements that does not support duplicate elements, and supports\n * adding and\n removing elements.\n * @param E the type of elements contained in the set. The mutable set is invariant in its\n element type.\n *\n public interface MutableSet<E> : Set<E>, MutableCollection<E> {\n\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\n element is already contained in the set.\n *\n override fun add(element: E): Boolean\n\n override fun\n remove(element: E): Boolean\n\n // Bulk Modification Operations\n\n override fun addAll(elements:\n Collection<E>): Boolean\n\n override fun removeAll(elements: Collection<E>): Boolean\n\n override fun\n retainAll(elements: Collection<E>): Boolean\n\n override fun clear(): Unit\n}\n\n/**\n * A collection that holds\n pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map\n keys are unique; the map holds only one value for each key.\n * Methods in this interface support only read-only\n access to the map; read-write access is supported through\n * the [MutableMap] interface.\n * @param\n K the type of map keys. The map is invariant in its key type, as it\n * can accept key as a parameter (of\n [containsKey] for example) and return it in [keys] set.\n * @param V the type of map values. The map is covariant\n in its value type.\n *\n public interface Map<K, out V> {\n // Query Operations\n\n /**\n * Returns the number\n of key/value pairs in the map.\n *\n public val size: Int\n\n /**\n * Returns `true` if the map is empty\n (contains no elements), `false` otherwise.\n *\n public fun isEmpty(): Boolean\n\n /**\n * Returns `true` if\n the map contains the specified [key].\n *\n public fun containsKey(key: K): Boolean\n\n /**\n * Returns\n `true` if the map maps one or more keys to the specified [value].\n *\n public fun containsValue(value:\n @UnsafeVariance V): Boolean\n\n /**\n * Returns the value corresponding to the given [key], or `null` if such\n a key is not present in the map.\n *\n public operator\n fun get(key: K): V?\n\n /**\n * Returns the value corresponding to the given [key], or [defaultValue] if such a\n key is not present in the map.\n *\n *\n * @since JDK 1.8\n *\n @SinceKotlin("1.1")\n\n @PlatformDependent\n\n public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n // See\n default implementation in JDK sources\n\n throw NotImplementedError()\n }\n\n // Views\n\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-\n only [Collection] of all values in this map. Note that this collection may contain duplicate values.\n *\n public\n val values: Collection<V>\n\n /**\n * Returns a read-only [Set] of all key/value pairs in this map.\n *\n public\n val entries: Set<Map.Entry<K, V>>\n\n /**\n * Represents a key/value pair held by a [Map].\n *\n public\n interface Entry<out K, out V> {\n\n /**\n * Returns the key of this key/value pair.\n *\n public\n val key: K\n\n /**\n * Returns the value of\n this key/value pair.\n *\n public\n val value: V\n }\n}\n\n/**\n * A modifiable collection that holds pairs\n of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map\n 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\n its key type.\n * @param V the type of map values. The mutable map is invariant in its value type.\n *\n public\n interface MutableMap<K, V> : Map<K, V> {\n // Modification Operations\n\n /**\n * Associates the specified

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[value] with the specified [key] in the map.\n * \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 * \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 * \n * @return true if entry was removed\n * \n @SinceKotlin("1.1")\n
@PlatformDependent\n public fun remove(key: K, value: V): Boolean {\n // See default implementation in
JDK sources\n return true\n }\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 * \n * @return the previous value corresponding to the
key.\n * \n public fun setValue(newValue: V): V\n }\n\n\n"/\n * Copyright 2010-2022 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/** An iterator over a sequence of values of type `Byte`. */\npublic abstract
class ByteIterator : Iterator<Byte> {\n override final fun next() = nextByte()\n\n /** Returns the next value in
the sequence without boxing. */\n public abstract fun nextByte(): Byte\n}\n\n/** An iterator over a sequence of
values of type `Char`. */\npublic abstract class CharIterator : Iterator<Char> {\n override final fun next() =
nextChar()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextChar():
Char\n}\n\n/** An iterator over a sequence of values of type `Short`. */\npublic abstract class ShortIterator :
Iterator<Short> {\n override final fun next() = nextShort()\n\n /** Returns the next value in the sequence without
boxing. */\n public abstract fun nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type `Int`.
*/\npublic abstract class IntIterator : Iterator<Int> {\n override final fun next() = nextInt()\n\n /** Returns the
next value in the sequence without boxing. */\n public
abstract fun nextInt(): Int\n}\n\n/** An iterator over a sequence of values of type `Long`. */\npublic abstract class
LongIterator : Iterator<Long> {\n override final fun next() = nextLong()\n\n /** Returns the next value in the
sequence without boxing. */\n public abstract fun nextLong(): Long\n}\n\n/** An iterator over a sequence of
values of type `Float`. */\npublic abstract class FloatIterator : Iterator<Float> {\n override final fun next() =
nextFloat()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextFloat():
Float\n}\n\n/** An iterator over a sequence of values of type `Double`. */\npublic abstract class DoubleIterator :
Iterator<Double> {\n override final fun next() = nextDouble()\n\n /** Returns the next value in the sequence
without boxing. */\n public abstract fun nextDouble(): Double\n}\n\n/** An iterator over a sequence of values of
type `Boolean`. */\npublic abstract class BooleanIterator : Iterator<Boolean>
{\n override final fun next() = nextBoolean()\n\n /** Returns the next value in the sequence without boxing. */\n
public abstract fun nextBoolean(): Boolean\n}\n\n"/\n * Copyright 2010-2022 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/** An iterator over a progression of values of type `Char`. */\n * @property step the number by
which the value is incremented on each step.\n * \ninternal class CharProgressionIterator(first: Char, last: Char, val
step: Int) : CharIterator() {\n private val finalElement: Int = last.code\n private var hasNext: Boolean = if (step >
0) first <= last else first >= last\n private var next: Int = if (hasNext) first.code else finalElement\n\n override fun
hasNext(): Boolean = hasNext\n\n override fun nextChar(): Char {\n

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        val value = next\n        if (value == finalElement) {\n            if (!hasNext) throw
kotlin.NoSuchElementException()\n            hasNext = false\n        }\n        else {\n            next += step\n        }\n    return value.toChar()\n    }\n}\n\n/**\n * An iterator over a progression of values of type `Int`.\n * @property step
the number by which the value is incremented on each step.\n */\ninternal class IntProgressionIterator(first: Int, last:
Int, val step: Int) : IntIterator() {\n    private val finalElement: Int = last\n    private var hasNext: Boolean = if (step >
0) first <= last else first >= last\n    private var next: Int = if (hasNext) first else finalElement\n\n    override fun
hasNext(): Boolean = hasNext\n\n    override fun nextInt(): Int {\n        val value = next\n        if (value ==
finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n        }\n        else {\n            next += step\n        }\n    }\n    return value\n}\n}\n\n/**\n * An iterator over a progression of values of type `Long`.\n * @property
step the number by which the value is incremented on each step.\n */\ninternal class LongProgressionIterator(first:
Long, last: Long, val step: Long) : LongIterator() {\n    private val finalElement: Long = last\n    private var
hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private var next: Long = if (hasNext) first else
finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextLong(): Long {\n        val
value = next\n        if (value == finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n           
hasNext = false\n        }\n        else {\n            next += step\n        }\n        return value\n    }\n}\n}\n\n","/**\n *
Copyright 2010-2022 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.getProgressionLastElement\n\n/**\n * A progression of values of type `Char`.\n */\npublic open class
CharProgression\n    internal constructor\n        (\n            start: Char,\n            endInclusive: Char,\n            step: Int\n        ) : Iterable<Char> {\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: Char = start\n\n    /**\n     * The last element in the progression.\n     */\n    public val last:
Char = getProgressionLastElement(start.code, endInclusive.code, step).toChar()\n\n    /**\n     * The step of the
progression.\n     */\n    public val step: Int
= step\n\n    override fun iterator(): CharIterator = CharProgressionIterator(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 CharProgression && (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.code + last.code) + 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 CharProgression 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: 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 =

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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 *\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 * A progression of values of type
`Long`.\n *\n public 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 *\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 * 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 package 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.\n *\n public interface
ClosedRange<T: Comparable<T>> {\n /**\n * The minimum value in the range.\n *\n public val start:
T\n\n /**\n * The maximum value in the range (inclusive).\n *\n public val endInclusive: T\n\n /**\n *
Checks whether the specified [value] belongs to the range.\n *\n public operator fun contains(value:
T): Boolean = value >= start && value <= endInclusive\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 public fun isEmpty(): Boolean =
start > endInclusive\n } }\n\n"/\n\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License,
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BASIS, \n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. \n * See the License for the specific language governing permissions and \n * limitations under the License. \n */ \n \n package kotlin \n \n /** \n * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java. \n */ \n public object Unit { \n override fun toString() = "kotlin.Unit" \n } \n \n /** \n * Copyright 2010-2015 JetBrains s.r.o. \n * Licensed under the Apache License, Version 2.0 (the "License"); \n * you may not use this file except in compliance with the License. \n * You may obtain a copy of the License at \n * <http://www.apache.org/licenses/LICENSE-2.0> \n * Unless required by applicable law or agreed to in writing, \n * software \n * distributed under the License is distributed on an "AS IS" BASIS, \n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. \n * See the License for the specific language governing permissions and \n * limitations under the License. \n */ \n \n package kotlin.annotation \n \n import kotlin.annotation.AnnotationTarget \n \n /** \n * Contains the list of code elements which are the possible annotation targets \n */ \n public enum class AnnotationTarget { \n /** Class, interface or object, annotation class is also included \n */ \n CLASS, \n /** Annotation class only \n */ \n ANNOTATION_CLASS, \n /** Generic type parameter \n */ \n TYPE_PARAMETER, \n /** Property \n */ \n PROPERTY, \n /** Field, including property's backing field \n */ \n FIELD, \n /** Local variable \n */ \n LOCAL_VARIABLE, \n /** Value parameter of a function or a constructor \n */ \n VALUE_PARAMETER, \n /** Constructor only (primary or secondary) \n */ \n CONSTRUCTOR, \n /** Function (constructors are not included) \n */ \n FUNCTION, \n /** Property getter only \n */ \n PROPERTY_GETTER, \n /** Property setter only \n */ \n PROPERTY_SETTER, \n /** Type usage \n */ \n TYPE, \n /** Any expression \n */ \n EXPRESSION, \n /** File \n */ \n FILE, \n /** Type alias \n */ \n TYPEALIAS \n } \n \n /** \n * Contains the list of possible annotation's retentions. \n * Determines how an annotation is stored in binary output. \n */ \n public enum class AnnotationRetention { \n /** Annotation isn't stored in binary output \n */ \n SOURCE, \n /** Annotation is stored in binary output, but invisible for reflection \n */ \n BINARY, \n /** Annotation is stored in binary output and visible for reflection (default retention) \n */ \n RUNTIME \n } \n \n /** \n * This meta-annotation indicates the kinds of code elements which are possible targets of an annotation. \n * If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements: \n * [CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER]. \n */ \n @property \n allowedTargets list of allowed annotation targets \n \n @Target(AnnotationTarget.ANNOTATION_CLASS) \n @MustBeDocumented \n public annotation class Target(vararg val allowedTargets: AnnotationTarget) \n \n /** \n * This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true. \n */ \n @property \n value \n necessary annotation retention (RUNTIME, BINARY or SOURCE) \n \n @Target(AnnotationTarget.ANNOTATION_CLASS) \n public annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME) \n \n /** \n * This meta-annotation determines that an annotation is applicable twice or more on a single code element \n */ \n @Target(AnnotationTarget.ANNOTATION_CLASS) \n public 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) \n public annotation class MustBeDocumented \n \n /** \n * Copyright 2010-2016 JetBrains s.r.o. \n * Licensed under the Apache License, Version 2.0 (the "License"); \n * you may not use this file except in compliance with the License. \n * You may obtain a copy of the License at \n * <http://www.apache.org/licenses/LICENSE-2.0> \n * Unless required by applicable law or agreed to in writing, \n * software \n * distributed under the License is distributed on an "AS IS" BASIS, \n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. \n * See the License for the specific language governing permissions and \n * limitations under the License. \n */ \n \n package 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"/*\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.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/**

* 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) {\n    null -> {\n        val arr: Array<dynamic> = array\n        object :
```

```
Iterator<dynamic> {\n            var index = 0\n            override fun hasNext() = index < arr.size\n            override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")\n        }\n    }\n    "BooleanArray" -> booleanArrayIterator(array)\n    "ByteArray" -> byteArrayIterator(array)\n    "ShortArray" -> shortArrayIterator(array)\n    "CharArray" -> charArrayIterator(array)\n    "IntArray" -> intArrayIterator(array)\n    "LongArray" -> longArrayIterator(array)\n    "FloatArray" -> floatArrayIterator(array)\n}
```

```
\n    "DoubleArray" -> doubleArrayIterator(array)\n    else -> throw IllegalStateException("Unsupported type argument for arrayIterator: $type")\n}\n\n@JsName("booleanArrayIterator")\ninternal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {\n    var index = 0\n    override fun
```

```

hasNext() = index < array.size\n  override fun nextBoolean() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("byteArrayIterator")\ninternal fun byteArrayIterator(array:
ByteArray) = object : ByteIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override
fun nextByte() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("shortArrayIterator")\ninternal fun
shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n  var index = 0\n  override fun hasNext() =
index < array.size\n  override fun nextShort()
= if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("charArrayIterator")\ninternal fun charArrayIterator(array:
CharArray) = object : CharIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override
fun nextChar() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("intArrayIterator")\ninternal fun intArrayIterator(array:
IntArray) = object : IntIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override fun
nextInt() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("floatArrayIterator")\ninternal fun
floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n  var index = 0\n  override fun hasNext() = index
< array.size\n  override fun nextFloat() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("doubleArrayIterator")\ninternal
fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n  var index = 0\n  override fun
hasNext() = index < array.size\n  override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("longArrayIterator")\ninternal fun longArrayIterator(array:
LongArray) = object : LongIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n
override fun nextLong() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("PropertyMetadata")\ninternal class
PropertyMetadata(@JsName("callableName") val name:
String)\n\n@JsName("noWhenBranchMatched")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n@JsName("subSequence")\ninternal fun subSequence(c: CharSequence,
startIndex: Int, endIndex: Int): CharSequence {\n  if (c is String) {\n    return c.substring(startIndex,
endIndex)\n  } else {\n    return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n
}\n}\n\n@JsName("captureStack")\ninternal fun captureStack(@Suppress("UNUSED_PARAMETER")
baseClass: JsClass<in Throwable>, instance: Throwable) {\n  if (js("Error").captureStackTrace) {\n    // Using
uncropped stack traces due to KT-37563.\n    // Precise stack traces are implemented in JS IR compiler and
stdlib\n    js("Error").captureStackTrace(instance);\n  } else {\n    instance.asDynamic().stack = js("new
Error()").stack;\n  }\n}\n\n@JsName("newThrowable")\ninternal fun newThrowable(message: String?, cause:
Throwable?): Throwable {\n  val throwable = js("new Error()")\n  throwable.message = if (jsTypeOf(message)
== "undefined") {\n    if (cause != null) cause.toString() else null\n  } else {\n    message\n  }\n
throwable.cause = cause\n  throwable.name = "Throwable"\n  return
throwable\n}\n\n@JsName("BoxedChar")\ninternal
class BoxedChar(val c: Int) : Comparable<Int> {\n  override fun equals(other: Any?): Boolean {\n    return
other is BoxedChar && c == other.c\n  }\n\n  override fun hashCode(): Int {\n    return c\n  }\n\n  override
fun toString(): String {\n    return js("this.c").unsafeCast<Char>().toString()\n  }\n\n  override fun
compareTo(other: Int): Int {\n    return js("this.c - other").unsafeCast<Int>()\n  }\n}\n\n
@JsName("valueOf")\n  public fun valueOf(): Int {\n    return c\n
}\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n  val typed =
js("Array")(args.size)\n  for (i in args.indices) {\n    val arr = args[i]\n    if (arr !is Array<*>) {\n
typed[i] = js("[]").slice.call(arr)\n    } else {\n    typed[i] = arr\n    }\n  }\n  return
js("[]").concat.apply(js("[]"), typed);\n}\n\n/** Concat regular Array's and TypedArray's into an Array.\n
*/\n\n@PublishedApi\n@JsName("arrayConcat")\n@Suppress("UNUSED_PARAMETER")\ninternal

```

```

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
}

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Programming Language contributors.
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found in the license/LICENSE.txt file.
 */
package 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")

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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("[]")

public fun <T> arrayOf(vararg
elements: T): Array<T> = definedExternally

public fun doubleArrayOf(vararg elements: Double): DoubleArray = definedExternally

public fun floatArrayOf(vararg elements: Float): FloatArray = definedExternally

public fun longArrayOf(vararg
elements: Long): LongArray = definedExternally

public fun intArrayOf(vararg elements: Int):
IntArray = definedExternally

public fun charArrayOf(vararg elements: Char): CharArray =
definedExternally

public fun shortArrayOf(vararg elements: Short): ShortArray =
definedExternally

public fun byteArrayOf(vararg elements: Byte): ByteArray =
definedExternally

public fun booleanArrayOf(vararg elements: Boolean): BooleanArray =
definedExternally

/** Creates a new instance of the [Lazy] that uses the specified initialization function
[initializer].
 */
public actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)

/** Creates a new instance of the [Lazy] that uses
the specified initialization function [initializer].
 */
public actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)

/** Creates
a new instance of the [Lazy] that uses the specified initialization function [initializer].
 */
public actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)

internal fun fillFrom(src: dynamic, dst: dynamic): dynamic {
    val srcLen: Int =
src.length
    val dstLen: Int = dst.length
    var index: Int = 0
    while (index < srcLen && index < dstLen)
dst[index] = src[index++]
    return dst
}

internal fun arrayCopyResize(source: dynamic, newSize: Int,
defaultValue: Any?): dynamic {
    val result = source.slice(0, newSize)
    copyArrayType(source, result)
    var
index: Int = source.length
    if (newSize > index) {
        result.length = newSize
    }
}

```

```

    while (index < newSize) result[index++] = defaultValue\n    }\n    return result\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\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\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n    if
(from.`$type$` != undefined) {\n        to.`$type$` = from.`$type$`\n    }\n}\n\ninternal inline fun jsIsType(obj:
dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass)", /*\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 * 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 * 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\n    public override val context:
CoroutineContext = resultContinuation.context\n\n    private var intercepted_: Continuation<Any?>? = null\n\n    public
fun intercepted(): Continuation<Any?> =\n        intercepted_\n        ?:\n    (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n        .also { intercepted_ = it }\n\n    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                    currentException =
null\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
                        completion.resumeWithException(it)\n                    } ?: completion.resume(currentResult)\n
                }\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\n    protected abstract fun doResume(): Any?\n}\n\ninternal object
CompletedContinuation : Continuation<Any?> {\n    override val context: CoroutineContext\n        get() =
error("This continuation is already complete")\n\n    override fun resumeWith(result: Result<Any?>) {\n
        error("This continuation is already complete")\n    }\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\n@file:Suppress("UNCHECKED_CAST",
"RedundantVisibilityModifier")\n\npackage kotlin\n\nimport kotlin.contracts.*\nimport

```

```

kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmInline\nimport
kotlin.jvm.JvmName\n\n/**\n * A discriminated union that encapsulates a successful outcome with a value of type
[T]\n * or a failure with an arbitrary [Throwable] exception.\n *^\n@SinceKotlin("1.3")\n@JvmInline\npublic
value class Result<out T> @PublishedApi internal constructor(\n @PublishedApi\n internal val value: Any?)\n :
Serializable {\n // discovery\n\n /**\n * Returns `true` if this instance represents a successful outcome.\n *
In this case [isFailure] returns `false`.\n *^\n public val isSuccess: Boolean get() = value !is Failure\n\n /**\n
* Returns `true` if this instance represents
a failed outcome.\n * In this case [isSuccess] returns `false`.\n *^\n public val isFailure: Boolean get() =
value is Failure\n\n // value & exception retrieval\n\n /**\n * Returns the encapsulated value if this instance
represents [success][Result.isSuccess] or `null`\n * if it is [failure][Result.isFailure].\n *^\n * This function is
a shorthand for `getOrElse { null }` (see [getOrElse]) or\n * `fold(onSuccess = { it }, onFailure = { null })` (see
[fold]).\n *^\n @InlineOnly\n public inline fun getOrNull(): T? =\n when {\n isFailure -> null\n
else -> value as T\n }\n\n /**\n * Returns the encapsulated [Throwable] exception if this instance
represents [failure][isFailure] or `null`\n * if it is [success][isSuccess].\n *^\n * This function is a shorthand
for `fold(onSuccess = { null }, onFailure = { it })` (see [fold]).\n *^\n public fun exceptionOrNull(): Throwable?
=\n
when (value) {\n is Failure -> value.exception\n else -> null\n }\n\n /**\n * Returns a string
`Success(v)` if this instance represents [success][Result.isSuccess]\n * where `v` is a string representation of the
value or a string `Failure(x)` if\n * it is [failure][isFailure] where `x` is a string representation of the exception.\n
*^\n public override fun toString(): String =\n when (value) {\n is Failure -> value.toString() //
`Failure($exception)`\n else -> `Success($value)`\n }\n\n // companion with constructors\n\n /**\n
* Companion object for [Result] class that contains its constructor functions\n * [success] and [failure].\n *^\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 /**\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\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\n/**\n *
Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n
*^\n@PublishedApi\n@SinceKotlin("1.3")\ninternal 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 * 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 * Note, that this function rethrows any [Throwable] exception thrown by [onFailure] function.\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 * 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>.getOrDefault(defaultValue: R): R {\n    if (isFailure) return defaultValue\n\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 * 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 * 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 * 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 * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n * See [recoverCatching] for an alternative that encapsulates exceptions.\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 * 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 *^@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// "peek"
onto value/exception and pipe\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 *^@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 *^@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 * 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.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 *^@SinceKotlin("1.3")\npublic interface Continuation<in T> {\n    /**\n     * The context of
the coroutine that corresponds to this continuation.\n     *^@ public val context: CoroutineContext\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     *^@ 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 `suspend` functions on this particular\n
* receiver and are restricted from calling arbitrary suspension functions.\n
*^@n\n@SinceKotlin("1.3")\n@Target(AnnotationTarget.CLASS)\n@Retention(AnnotationRetention.BINARY)\npu
blic 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\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\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\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T>
Continuation(\n    context: CoroutineContext,\n    crossinline resumeWith: (Result<T>) -> Unit):
Continuation<T> =\n    object : Continuation<T> {\n        override val context: CoroutineContext\n            get() =
context\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 *^@n\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\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).createCoroutine(\n    completion: Continuation<T>): 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 *^@n\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 @SinceKotlin("1.3") \n @Suppress("UNCHECKED_CAST") \n public 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") \n public 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") \n public 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 * \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 \n public 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 \n public
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 * \n \n package kotlin.coroutines.intrinsics \n \n import
kotlin.coroutines.* \n import 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 \n
* be present in
the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation \n * context
is established. \n * \n * This function is designed to be used from inside of
[suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended \n * coroutine using a reference
to the suspending function. \n * \n @SinceKotlin("1.3") \n @InlineOnly \n public actual inline fun <T> (suspend () ->
T).startCoroutineUninterceptedOrReturn(\n completion: Continuation<T>\n): Any? =
this.asDynamic()(completion, false)\n \n /** \n * Starts an unintercepted coroutine with receiver type [R] and 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 \n * be present in the completion's [CoroutineContext]. It is
the invoker's responsibility to ensure that a proper invocation \n * context is established. \n * \n * This function is
designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the

```

suspended\n * coroutine using a reference to the suspending function.\n

```

*\n@SinceKotlin("1.3")\n@InlineOnly\npublic actual inline fun <R, T> (suspend R.() ->
T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n completion: Continuation<T>\n): Any? =
this.asDynamic()(receiver, completion, false)\n\n@InlineOnly\ninternal actual inline fun <R, P, T> (suspend R.(P) -
> T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n param: P,\n completion: Continuation<T>\n):
Any? = this.asDynamic()(receiver, param, completion, false)\n\n/**\n * Creates unintercepted coroutine without
receiver and with result type [T].\n * This function creates
a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created
coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is
invoked when coroutine completes with result or exception.\n *\n * This function returns unintercepted
continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going
through the\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n * It is the
invoker's responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this
function may get invoked in an arbitrary context.\n *\n * [Continuation.intercepted] can be used to acquire the
intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n
* both the coroutine and [completion] happens in the invocation context established
by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any resume function on the resulting continuation
corrupts the\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\n
*/\n\n@SinceKotlin("1.3")\npublic actual fun <T> (suspend () -> T).createCoroutineUnintercepted(\n completion:
Continuation<T>\n): Continuation<Unit> =\n // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n
if (this.asDynamic().length == 2) {\n // When `suspended` is true the continuation is created, but not
executed\n this.asDynamic()(completion, true)\n } else {\n
createCoroutineFromSuspendFunction(completion) {\n this.asDynamic()(completion)\n }\n }\n\n/**\n * Creates unintercepted 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 *\n * To start executing the created coroutine,
invoke `resume(Unit)`
on the returned [Continuation] instance.\n * The [completion] continuation is invoked when coroutine completes
with result or exception.\n *\n * This function returns unintercepted continuation.\n * Invocation of `resume(Unit)`
starts coroutine immediately in the invoker's call stack without going through the\n * [ContinuationInterceptor] that
might be present in the completion's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper
invocation context is established.\n * Note that [completion] of this function may get invoked in an arbitrary
context.\n *\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Invocation of
`resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion]
happens in the invocation context established by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any
resume function on the resulting continuation corrupts the\n * state machine of
the coroutine and may result in arbitrary behaviour or exception.\n */\n\n@SinceKotlin("1.3")\npublic actual fun
<R, T> (suspend R.() -> T).createCoroutineUnintercepted(\n receiver: R,\n completion: Continuation<T>\n):
Continuation<Unit> =\n // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n if
(this.asDynamic().length == 3) {\n // When `suspended` is true the continuation is created, but not executed\n
this.asDynamic()(receiver, completion, true)\n } else {\n createCoroutineFromSuspendFunction(completion)
{\n this.asDynamic()(receiver, completion)\n }\n }\n\n/**\n * Intercepts this continuation with
[ContinuationInterceptor].\n *\n * This function shall be used on the immediate result of
[createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for
[ContinuationInterceptor] in the continuation's [context][Continuation.context],\n * invokes
[ContinuationInterceptor.interceptContinuation],
caches and returns the result.\n *\n * If this function is invoked on other [Continuation] instances it returns `this`
continuation unchanged.\n */\n\n@SinceKotlin("1.3")\npublic actual fun <T> Continuation<T>.intercepted():
Continuation<T> =\n (this as? CoroutineImpl)?.intercepted() ?: this\n\nprivate inline fun <T>

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```

createCoroutineFromSuspendFunction(\n completion: Continuation<T>,\n crossinline block: () -> Any?)\n):
Continuation<Unit> {\n @Suppress("UNCHECKED_CAST")\n return object : CoroutineImpl(completion as
Continuation<Any?>) {\n override fun doResume(): Any? {\n exception?.let { throw it }\n return
block()\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// Mirrors signature from JS IR BE\n\n// Used for
js.translator/testData/box/number/mulInt32.kt\n@library\n@jsName("imulEmulated")\n@Suppress("UNUSED_P
ARAMETER")\n\ninternal fun imul(x: Int, y: Int): Int =
definedExternally\n\n\n@Suppress("NOTHING_TO_INLINE")\n\ninternal inline fun isArrayish(o: dynamic) =
js("Kotlin").isArrayish(o)\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// NOTE: Do not author your exceptions as they are written in
this file, instead use this template:\n\n/*\n\npublic open class MyException : Exception {\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// TODO: remove primary
constructors, make all secondary KT-22055\n\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\n\npublic
actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?
: null) {\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n
actual constructor(cause: Throwable?) : this(undefin
ed, cause)\n}\n\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\n\npublic actual open class Exception actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ? : null) {\n actual constructor()
: this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open class RuntimeException actual constructor(message:
String?, cause: Throwable?) : Exception(message, cause) {\n actual constructor() : this(null, null)\n actual
constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin
ed, cause)\n}\n\n\npublic actual open
class IllegalArgumentException 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(undefin
ed, cause)\n}\n\n\npublic actual
open class IllegalStateException 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(undefin
ed, cause)\n}\n\n\npublic actual
open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\n
actual constructor() : this(null)\n}\n\n\n\npublic actual open class ConcurrentModificationException 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(undefin
ed, cause)\n}\n\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(undefin
ed, cause)\n}\n\n\n\n\npublic actual open class NumberFormatException actual constructor(message: String?) :
IllegalArgumentException(message) {\n actual constructor() : this(null)\n}\n\n\n\n\npublic actual open class
NullPointerException actual constructor(message: String?) : RuntimeException(message) {\n actual constructor() :
this(null)\n}\n\n\n\n\npublic actual open class ClassCastException actual constructor(message: String?) :
RuntimeException(message) {\n actual constructor() : this(null)\n}\n\n\n\n\npublic actual open class
AssertionError\n\n@SinceKotlin("1.4")\n\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?

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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")\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\n@library("floatToBits")\n\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\n@library("floatToRawBits")\n\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\n@kotlin.internal.InlineOnly\n\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
internal inline val Long.high: Int get() = this.asDynamic().getHighBits().unsafeCast<Int>()\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\nimport kotlin.reflect.KClass\n\n@PublishedApi\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 * 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 * 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\n@SinceKotlin("1.2")\npublic actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\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// 1343 ranges totally\n\nprivate object Category {\n
val decodedRangeStart: IntArray\n
val decodedRangeCategory: IntArray\n\n
init {\n
val toBase64 = "\n
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 = "\n
gBCFEDCKKCDaDDaDBhBCEEDDDDDDEDXBHYBH5BRwBGDCHDCIDFHDCHFDCDEIRTEE7BGHDDJICBbSEMOfGERwDEDDDDDECEFCRBjBhFDcYFFCCzBvBjBBFC3B0hDBmBDGpBDDcTBjBEECLGDFCLDCgBBKVKEDiDDHCFECECKCEODBeC5CLBOKhBJDDDDWEBHFCFCPBZDEL1BVBSLPBgBB2BDBDICFBHKCKCPDBHEDWBHEDDDDEDEDIBDGDCCKCGDDDDCGECCWBFMDDCDEDDCHDDHKDDDBKDBHFCWBFgFDBDDFEDBPDDKCHBGDCHEDWBFgFDCEDEDBHDDGDCKCGJEGDBFDDFDDDDDDMEFDBFDCGBOKDFDFDCGFCXBQDDDDDBEGEDFDDKHBHDDGFCXBKBFCEFCFCHCHECKDNCCHFCoBEDECFDDDDHDCKJBGDCSDYBJEhBFDDDEBIGKDCMuBFHEBGBIBKCKbFBFBFXEIFJDFDGCKCEgBBDPEDGKKGECIBkBEObDFFLBkBBIBEFCECIBrBCEBEGDBKGGDDDDDDCHDENDCFEKDDIBDDFrBCDpKBECGEECPBBEChBBECGEECPB5BBECjCCDJUDQKG2CCGDsTCRBaCDrCDDIHNBEDLSDCJSCMLFCM0BDHGFLLBFDDKKGGEFDDDBKGjBB1BHfChBDFmCKfDDDDDDCGDCFDKcFLsBEaGKBdixDDDD1BDGDEIGJEKGGHGBGCMF/BEBvBCEDDFHEKHkJJDDDeDDGDkSbFEDCIEkBIICCFDKDDKeGcJHrBCDIDBNBHEBEFDBFsB/BNBiBIB6BBF1EiDiJIGCGCIIIIGCGCIIIIOCIIIIIDFEDDBFEDDDDEBDIFDDFEDBLFGCEEICFBjCDEDCLDKBFBKCCGDDKDDNDgBQNEBDMPPFFDEDEBFFHECEBEEDFBEDDQjBCEDEFFCCJHBeEEfsIIEUCHCxCBeZoBGICZLV8BuCW3FBjB2BiVDB4HOesBFcFKQgJjEW/BEgBCiIwBVCGnBCgBBpDvBBuBEDBHEFGCCjDCGEDCFCFIBDDF4BHCObXJHBHBHBHBHBHBHBgBCECGHGEDI FBKCEDMEtBaB5CM2GaMEDDCKCGFCJEDFDDDC2CDDDB6CDCFrBB+CDEKgBkBMQfBKeIBPgBKnbPgKguGgC9vUDVB3jBD3BJoBGCsIBDQKCUuBDDKcCCmCKCGIXJCNC/BBHGKDECEVFBEMCEEbqBDDGDFDXDCEBDGEG0BEICyBQCICKGSGDEBKcICXLCLdDDBvBDECCDNCKEFCfJKFBpBFEDCJDBICCKCEQBGDDByBEDCEFBYDcLEDDCKGCGGJHBHBrBBEJDEwCjBIDCKGk9KMxExBEggCgoGuLCqDmBHMFFCKBNBFBI sDQRrLCQgCC2BoBMCCQGEgQDCQDDDDDFDGDECEEFBnEEBFEDCKCDCaDDaDBfCKBtBCfDGCGCFEDDDDCHECKDC\n\n
val diff = decodeVarLenBase64(rangeStartDiff, fromBase64, 1342)\n
val start = IntArray(diff.size + 1)\n
for (i in diff.indices) {\n
start[i + 1] = start[i] + diff[i]\n
}\n
decodedRangeStart = start\n\n
// rangeCategory.length = 2033\n
val rangeCategory = "\n
PsY44a41W54UYJZYB14W7XC15WZPsYa84bl9Zw8b85Lr7C44brlerrYBZBCZCiBiBiBhCiiBhChiBhiCBhhChiCihBhChCChiBhChiCIBCFhjCiBiBihDhiBhCCihBiBhCCFCEbEbEb7EbGhCk7BixRkiCi4BRbh4BhRhCBRBCiiBBcIBChiZBCBCiBcGHhChCiBRBxxEYc40Rx8c6RGUm4GRFRFYRQZ44acG4wRYFEFGJYIIIGFIYGwcGmkEmcGFJfJ8cYxwFGFGRFGFRJFGkkcYkxRm6aFGEgmmEmEGRYRFGxxYFRFRFRGQGIFmIFIGIooGF

```



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    decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 222)\n    }\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/**\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/**\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 * 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/\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\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 * 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/\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"/*\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/\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 */\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 */\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\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int):
UInt {\n  return elementAtOrElse(index) { throw IndexOutOfBoundsException("\nindex: $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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int):
ULong {\n  return elementAtOrElse(index) { throw IndexOutOfBoundsException("\nindex: $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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int):
UByte {\n  return elementAtOrElse(index) { throw IndexOutOfBoundsException("\nindex: $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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int):
UShort {\n  return elementAtOrElse(index) { throw IndexOutOfBoundsException("\nindex: $index, size: $size")\n
}\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\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 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/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic 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\npublic 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

```

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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 * Returns a [List] that wraps the original array.\n\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
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\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// 9 ranges
totally\n\n/**\n * Returns `true` if this character is a whitespace.\n */\n\ninternal 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\npackage kotlin\n\n\npublic 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\npackage kotlin.js\n\nimport
kotlin.annotation.AnnotationTarget.*\n\n@Target(FUNCTION)\n@Deprecated("Use inline extension function with
body using dynamic")\npublic annotation class nativeGetter\n\n@Target(FUNCTION)\n@Deprecated("Use inline
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)\n\ninternal
annotation class library(public val name: String = "")\n\n@Target(CLASS)\n\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\n *   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\n *   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\n *   for a concept provided by the declaration, which is uncommon in Kotlin.\n\n
*/\n\n * Example:\n */\n\n * ````\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 * ````\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
*/\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: all the declarations in\n\n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object\n * that contain all the declarations from the file.\n *\n * Example:\n *\n ``` kotlin\n *\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\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\n\n * 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\n * 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 *\n ``` kotlin\n *\n @JsModule("jquery")\n * @JsNonModule\n * @JsName("\$")\n * external abstract class JQuery()\n * {\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\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\n\n * either to plain unprefixed 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(...)`\n * annotation.\n *\n * Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.\n *\n * Example:\n *\n ``` kotlin\n *\n @file:JsQualifier("my.jsPackageName")\n * 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 `.`\n * character.\n *\n * Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.\$.f`.\n *\n * @see JsModule\n\n*/\n\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FILE)\npublic annotation class JsQualifier(val value: String)\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 *\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*/\n\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n@SinceKotlin("1.3")\npublic actual annotation class JsExport\n\n/**\n *

Forces a top-level property to be initialized eagerly, opposed to lazily on the first access to file and/or property.
*
@ExperimentalStdlibApi
@Retention(AnnotationRetention.BINARY)
@Target(AnnotationTarget.PROPERTY)
@SinceKotlin("1.6")
@Deprecated("This annotation is a temporal migration assistance and may be removed in the future releases, please consider filing an issue about the case where it is needed")
public annotation class EagerInitialization
", /*
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*
package kotlin.jvm
// these are used in common generated code in stdlib
// TODO: find how to deprecate these ones
@Target(AnnotationTarget.FIELD)
@Retention(AnnotationRetention.SOURCE)
public actual annotation class Volatile
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER,

AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.SOURCE)
public actual annotation class Synchronized
", /*
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license/LICENSE.txt file.
*
package kotlin.collections
/**
* Provides a skeletal implementation of the [MutableCollection] interface.
*
* @param E the type of elements contained in the collection. The collection is invariant in its element type.

*
public actual abstract class AbstractMutableCollection<E> protected actual constructor() :
AbstractCollection<E>(), MutableCollection<E> {
 actual abstract override fun add(element: E): Boolean
 actual override fun remove(element: E): Boolean {
 checkIsMutable()
 val iterator = iterator()
 while (iterator.hasNext()) {
 if (iterator.next() == element) {
 iterator.remove()
 return true
 }
 }
 return false
 }
 actual override fun addAll(elements: Collection<E>): Boolean {
 checkIsMutable()
 var modified = false
 for (element in elements) {
 if (add(element))
 modified = true
 }
 return modified
 }
 actual override fun removeAll(elements: Collection<E>): Boolean {
 checkIsMutable()
 return (this as MutableIterable<E>).removeAll { it in elements }
 }
 actual override fun retainAll(elements:

Collection<E>): Boolean {
 checkIsMutable()
 return (this as MutableIterable<E>).removeAll { it !in elements }
 }
 actual override fun clear(): Unit {
 checkIsMutable()
 val iterator = this.iterator()
 while (iterator.hasNext()) {
 iterator.next()
 iterator.remove()
 }
 }

@Deprecated("Provided so that subclasses inherit this function", level = DeprecationLevel.HIDDEN)

@JsName("toJSON")
protected fun toJSON(): Any = this.toArray()
/**
* This method is called every time when a mutating method is called on this mutable collection.
* Mutable collections that are built (frozen) must throw `UnsupportedOperationException`.
*
internal open fun checkIsMutable(): Unit {
}
", /*
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found in the license/LICENSE.txt file.
*
package kotlin.collections
/**
* Provides a skeletal implementation of the [MutableList] interface.
*
* @param E the type of elements contained in the list. The list is invariant in its element type.

*
public actual abstract class AbstractMutableList<E> protected actual constructor() :
AbstractMutableCollection<E>(), MutableList<E> {
 protected var modCount: Int = 0
 abstract override fun add(index: Int, element: E): Unit
 abstract override fun removeAt(index: Int): E
 abstract override fun set(index: Int, element: E): E
 /**
 * Adds the specified element to the end of this list.
 *
 * @return `true` because the list is always modified as the result of this operation.
 *
 actual override fun add(element: E): Boolean {
 checkIsMutable()
 add(size, element)
 return true
 }
 actual override fun addAll(index: Int, elements: Collection<E>): Boolean {
AbstractList.checkPositionIndex(index, size)
 checkIsMutable()
 var _index = index
 var changed = false
 for (e in elements) {
 add(_index++, e)
 changed = true
 }
 return changed
 }
 actual override fun clear() {
 checkIsMutable()
 removeRange(0, size)
 }
 actual

```

override fun removeAll(elements: Collection<E>): Boolean {
    checkIsMutable()
    return removeAll { it in elements }
}

actual override fun retainAll(elements: Collection<E>): Boolean {
    checkIsMutable()
    return removeAll { it !in elements }
}

actual override fun iterator(): MutableIterator<E> =
    IteratorImpl()

actual override fun contains(element: E): Boolean = indexOf(element) >= 0

actual override fun indexOf(element: E): Int {
    for (index in 0..lastIndex) {
        if (get(index) == element) {
            return index
        }
    }
    return -1
}

actual override fun lastIndexOf(element: E): Int {
    for (index in lastIndex downTo 0) {
        if (get(index) == element) {
            return index
        }
    }
    return -1
}

actual override fun listIterator():
    MutableListIterator<E> = listIterator(0)

actual override fun listIterator(index: Int): MutableListIterator<E> =
    ListIteratorImpl(index)

actual override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> =
    SubList(this, fromIndex, toIndex)

/**
 * Removes the range of elements from this list starting from
 * [fromIndex] and ending with but not including [toIndex].
 */
protected open fun removeRange(fromIndex:
    Int, toIndex: Int) {
    val iterator = listIterator(fromIndex)
    repeat(toIndex - fromIndex) {
        iterator.next()
        iterator.remove()
    }
}

/**
 * Compares this list with another list instance with the ordered structural equality.
 * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same
 * order.
 */
override fun equals(other: Any?): Boolean {
    if (other === this) return true
    if (other !is List<*>) return false
    return AbstractList.orderedEquals(this, other)
}

/**
 * Returns the hash
 * code value for this list.
 */
override fun hashCode(): Int = AbstractList.orderedHashCode(this)

private open inner class IteratorImpl : MutableIterator<E> {
    /** the index of the item that will be returned on
     * the next call to [next]() */
    protected var index = 0

    /** the index of the item that was returned on the
     * previous call to [next]() * or [ListIterator.previous]() (for `ListIterator`),
     * -1 if no such item
     * exists
     */
    protected var last = -1

    override fun hasNext(): Boolean = index < size

    override fun
    next(): E {
        if (!hasNext()) throw NoSuchElementException()
        last = index++
        return
        get(last)
    }

    override fun remove() {
        check(last != -1) { "Call next() or previous() before
        removing element from the iterator." }
        removeAt(last)
        index = last
        last = -1
    }
}

/**
 * Implementation of `MutableListIterator` for abstract lists.
 */
private inner class
    ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {
    init {
        AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)
        this.index = index
    }

    override fun hasPrevious(): Boolean = index > 0

    override fun nextIndex(): Int = index

    override fun
    previous(): E {
        if (!hasPrevious()) throw NoSuchElementException()
        last = --index
        return get(last)
    }

    override fun previousIndex(): Int = index - 1

    override fun add(element: E) {
        add(index,
        element)
        index++
        last = -1
    }

    override fun set(element: E) {
        check(last != -
        1) { "Call next() or previous() before updating element value with the iterator." }
        set(last, element)
    }
}

private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex:
    Int) : AbstractMutableList<E>(), RandomAccess {
    private var _size: Int = 0

    init {
        AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)
        this._size = toIndex - fromIndex
    }

    override fun add(index: Int, element: E) {
        AbstractList.checkPositionIndex(index, _size)
        list.add(fromIndex
        + index, element)
        _size++
    }

    override fun get(index: Int): E {
        AbstractList.checkElementIndex(index, _size)
        return list[fromIndex + index]
    }

    override
    fun removeAt(index: Int): E {
        AbstractList.checkElementIndex(index, _size)
        val result =
        list.removeAt(fromIndex + index)
        _size--
        return result
    }

    override fun set(index: Int,
    element: E): E {
        AbstractList.checkElementIndex(index, _size)
        return list.set(fromIndex + index,
        element)
    }

    override val size: Int get() = _size

    internal override fun checkIsMutable(): Unit =
    list.checkIsMutable()
}
}

}
}

/**
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 */

```



```

next(): V = entryIterator.next().value\n                override fun remove() = entryIterator.remove()\n    }\n        }\n                override val size: Int get() = this@AbstractMutableMap.size\noverride fun checkIsMutable(): Unit = this@AbstractMutableMap.checkIsMutable()\n        }\n        }\nreturn _values!!\n    }\n\n actual override fun remove(key: K): V? {\n    checkIsMutable()\n    val iter =\nentries.iterator()\n    while (iter.hasNext()) {\n        val entry = iter.next()\n        val k = entry.key\n        if\n(key == k) {\n            val value = entry.value\n            iter.remove()\n            return value\n        }\n    }\n    return null\n}\n\n /**\n * This method is called every time when a mutating method is called on\nthis mutable map.\n * Mutable maps that are built (frozen) must throw `UnsupportedOperationException`.\n\n */\n internal open fun checkIsMutable(): Unit {\n}\n\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin\nProgramming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\nfound in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n /**\n * Provides a skeletal\nimplementation of the [MutableSet] interface.\n */\n * @param E the type of elements contained in the set. The set is\ninvariant in its element type.\n */\n\npublic actual abstract class AbstractMutableSet<E> protected actual constructor()\n: AbstractMutableCollection<E>(), MutableSet<E> {\n\n    /**\n     * Compares this set with another set instance\nwith the unordered structural equality.\n     *\n     * @return `true`, if [other] instance is a [Set] of the same size, all\nelements of which are contained in this set.\n     */\n\n    override fun equals(other: Any?): Boolean {\n        if (other\n=== this) return true\n        if (other !is\nSet<*>) return false\n        return AbstractSet.setEquals(this, other)\n    }\n\n    /**\n     * Returns the hash code\nvalue for this set.\n     */\n\n    override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is\ngoverned by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage\nkotlin.collections\n\n /**\n * Provides a [MutableList] implementation, which uses a resizable array as its backing\nstorage.\n */\n * This implementation doesn't provide a way to manage capacity, as backing JS array is\nresizeable\nitself.\n * There is no speed advantage to pre-allocating array sizes in JavaScript, so this\nimplementation does not\ninclude any of the\n * capacity and \"growth increment\" concepts.\n */\n\npublic actual open class ArrayList<E>\ninternal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(), MutableList<E>,\nRandomAccess {\n    private var isReadOnly: Boolean = false\n\n    /**\n     * Creates an empty [ArrayList].\n     */\n\n    public actual constructor() : this(emptyArray()) {\n}\n\n    /**\n     * Creates an empty [ArrayList].\n     */\n\n    @param initialCapacity initial capacity (ignored)\n     */\n\n    public actual constructor(initialCapacity: Int) :\nthis(emptyArray()) {\n}\n\n    /**\n     * Creates an [ArrayList] filled from the [elements] collection.\n     */\n\n    public\nactual constructor(elements: Collection<E>) : this(elements.toTypedArray<Any?>()) {\n}\n\n    @PublishedApi\ninternal fun build(): List<E> {\n    checkIsMutable()\n    isReadOnly = true\n    return this\n}\n\n    /**\n     * Does nothing in this ArrayList implementation.\n     */\n\n    public actual fun trimToSize() {\n}\n\n    /**\n     * Does nothing in\nthis ArrayList implementation.\n     */\n\n    public actual fun ensureCapacity(minCapacity: Int) {\n}\n\n    actual override\nval size: Int get() = array.size\n    @Suppress(\"UNCHECKED_CAST\")\n\n    actual override fun get(index: Int): E = array[rangeCheck(index)] as E\n    actual override fun set(index: Int,\nelement: E): E {\n    checkIsMutable()\n    rangeCheck(index)\n    @Suppress(\"UNCHECKED_CAST\")\n    return array[index].apply { array[index] = element } as E\n}\n\n    actual override fun add(element: E): Boolean\n{\n    checkIsMutable()\n    array.asDynamic().push(element)\n    modCount++\n    return true\n}\n\n    actual\noverride fun add(index: Int, element: E): Unit {\n    checkIsMutable()\n    array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n    modCount++\n}\n\n    actual override\nfun addAll(elements: Collection<E>): Boolean {\n    checkIsMutable()\n    if (elements.isEmpty()) return\nfalse\n\n    array += elements.toTypedArray<Any?>()\n    modCount++\n    return true\n}\n\n    actual\noverride fun addAll(index: Int, elements: Collection<E>): Boolean {\n\n    checkIsMutable()\n    insertionRangeCheck(index)\n\n    if (index == size) return addAll(elements)\n    if\n(elements.isEmpty()) return false\n    when (index) {\n        size -> return addAll(elements)\n        0 -> array\n= elements.toTypedArray<Any?>() + array\n        else -> array = array.copyOfRange(0,\nindex).asDynamic().concat(elements.toTypedArray<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    @Suppress("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        if (array.size > size) {\n            array[size] = null as T // null-terminate\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 * 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 */\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    {\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)\n            array.asDynamic().push(index)\n        val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }\n        array.asDynamic().sort(comparison)\n        for (index in 1 until array.size) {\n            val a = array[index - 1]\n            val b = array[index]\n            if ((a and 3) == (b and 3) && a >= b) return false\n        }\n        _stableSortingIsSupported = true\n        return true\n    }\n}\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>) {\n    val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n    val result = mergeSort(array, buffer, start, endInclusive, comparator)\n    if (result !== array) {\n        for (i in start..endInclusive) array[i] = result[i]\n    }\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n    if (start == end) {\n        return array\n    }\n    val median = (start + end) / 2\n    val left = mergeSort(array, buffer, start, median, comparator)\n    val right = mergeSort(array, buffer, median + 1, end, comparator)\n    val target = if (left === buffer) array else buffer\n    // Merge.\n    var leftIndex = start\n    var rightIndex = median + 1\n    for (i

```



```

in start..end) {\n    when {\n        leftIndex <= median && rightIndex <= end -> {\n            val leftValue =
left[leftIndex]\n            val rightValue = right[rightIndex]\n            if (comparator.compare(leftValue,
rightValue) <= 0) {\n                target[i] = leftValue\n                leftIndex++\n            } else {\n
target[i]
= rightValue\n                rightIndex++\n            }\n        }\n        leftIndex <= median -> {\n
target[i] = left[leftIndex]\n                leftIndex++\n            }\n        else /* rightIndex <= end */ -> {\n
target[i] = right[rightIndex]\n                rightIndex++\n            }\n        Unit // TODO: Fix KT-31506\n    }\n    }\n
}\n\n    return target\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\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@kotlin.js.JsName("
contentDeepHashCodeImpl")\n\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n    if (this ==
null) return 0\n    var result = 1\n    for (element in this) {\n        val elementHash = when {\n            element
== null -> 0\n            isArrayish(element) -> (element.unsafeCast<Array<*>()).contentDeepHashCodeImpl()\n\n
            element is UByteArray -> element.contentHashCode()\n            element is UShortArray ->
element.contentHashCode()\n            element is UIntArray -> element.contentHashCode()\n            element is
ULongArray -> element.contentHashCode()\n\n            else -> element.hashCode()\n        }\n\n        result = 31 * result + elementHash\n    }\n    return result\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\ninternal interface
EqualityComparator {\n    /**\n     * Subclasses must override to return a value indicating\n     * whether or not two
keys or values are equal.\n     */\n    abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n    /**\n     * Subclasses must override to return the hash code of a given key.\n     */\n    abstract fun
getHashCode(value: Any?): Int\n\n    object HashCode : EqualityComparator {\n        override fun equals(value1:
Any?, value2: Any?): Boolean = value1 == value2\n        override fun getHashCode(value: Any?): Int =
value?.hashCode() ?: 0\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 AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based
implementation of the [MutableMap] interface.\n * This implementation makes no guarantees regarding the
order of enumeration of [keys], [values] and [entries] collections.\n */\n\n// Classes that extend HashMap and
implement `build()`
(freezing) operation\n// have to make sure mutating methods check `checkIsMutable`.\n\npublic actual open class
HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\n    private inner class EntrySet :
AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n        override fun add(element: MutableEntry<K, V>):
Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n        override fun clear()
{\n            this@HashMap.clear()\n        }\n        override fun containsEntry(element: Map.Entry<K, V>): Boolean
= this@HashMap.containsEntry(element)\n        override operator fun iterator():
MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\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        override val size: Int get() =
this@HashMap.size\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()
: this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n    /**\n     * Constructs an empty [HashMap]
instance.\n     */\n    @param initialCapacity the initial capacity (ignored)\n     * @param loadFactor the load

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factor (ignored)\n    * \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\n        has no need of load factors or capacities.\n        require(initialCapacity\n        >= 0) { \"Negative initial capacity: $initialCapacity\" }\n        require(loadFactor >= 0) { \"Non-positive load factor:\n        $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\n    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\n    = internalMap.containsKey()\n\n    actual override fun containsValue(value: V): Boolean = internalMap.any {\n        equality.equals(it.value, value)\n    }\n\n    private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>?\n    = null\n\n    actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n    get() {\n        if\n        (_entries == null) {\n            _entries\n            = createEntrySet()\n        }\n        return _entries!!\n    }\n\n    internal open fun createEntrySet():\n    MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n    actual override operator fun get(key: K): V? =\n    internalMap.get(key)\n\n    actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n    actual\n    override fun remove(key: K): V? = internalMap.remove(key)\n\n    actual override val size: Int get() =\n    internalMap.size\n}\n\n/**\n * Constructs the specialized implementation of [HashMap] with [String] keys, which\n    stores the keys as properties of\n    * JS object without hashing them.\n    */\n\n    public fun <V> stringMapOf(vararg pairs:\n    Pair<String, V>): HashMap<String, V> {\n        return HashMap<String,\n        V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n    }\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\n    in the license/LICENSE.txt file.\n    */\n\n    * Based on GWT HashSet\n    * Copyright 2008 Google Inc.\n\n    */\n\n    package kotlin.collections\n\n    /**\n     * The implementation of the [MutableSet] interface, backed by a\n     [HashMap] instance.\n     */\n\n    // Classes that extend HashSet and implement `build()` (freezing) operation\n    // have to\n    make sure mutating methods check `checkIsMutable`.\n\n    public actual open class HashSet<E> :\n    AbstractMutableSet<E>, MutableSet<E> {\n\n        internal val map: HashMap<E, Any>\n\n        /**\n         * Constructs a\n         new empty [HashSet].\n         */\n        actual constructor() {\n            map = HashMap<E, Any>()\n        }\n\n        /**\n         * Constructs a new [HashSet] filled with the elements of the specified collection.\n         */\n        actual\n        constructor(elements: Collection<E>) {\n            map = HashMap<E, Any>(elements.size)\n            addAll(elements)\n        }\n\n        /**\n         * Constructs a new empty [HashSet].\n         */\n        * @param initialCapacity the initial capacity\n        (ignored)\n        * @param\n        loadFactor the load factor (ignored)\n        * \n        * @throws IllegalArgumentException if the initial capacity or\n        load factor are negative\n        */\n        actual constructor(initialCapacity: Int, loadFactor: Float) {\n            map =\n            HashMap<E, Any>(initialCapacity, loadFactor)\n        }\n\n        actual constructor(initialCapacity: Int) :\n        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,\n        Any>) {\n            this.map = map\n        }\n\n        actual override fun add(element: E): Boolean {\n            val old =\n            map.put(element, this)\n            return old == null\n        }\n\n        actual override fun clear() {\n            map.clear()\n        }\n\n        public override fun clone(): Any {\n            // return HashSet<E>(this)\n        }\n\n        actual override operator fun\n        contains(element: E): Boolean = map.containsKey(element)\n\n        actual\n        override fun isEmpty(): Boolean = map.isEmpty()\n\n        actual override fun iterator(): MutableIterator<E> =\n        map.keys.iterator()\n\n        actual override fun remove(element: E): Boolean = map.remove(element) != null\n\n        actual\n        override val size: Int get() = map.size\n}\n\n/**\n * Creates a new instance of the specialized\n    implementation of [HashSet] with the specified [String] elements,\n    * which elements the keys as properties of JS\n    object without hashing them.\n    */\n\n    public fun stringSetOf(vararg elements: String): HashSet<String> {\n        return\n        HashSet(stringMapOf<Any>()).apply { addAll(elements) }\n    }\n\n    \"/*\n    * Copyright 2010-2018 JetBrains s.r.o. and\n    Kotlin Programming Language contributors.\n    * Use of this source code is governed by the Apache 2.0 license that

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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                } 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                    // structureChanged(host)\n
                    return null\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                                        // structureChanged(host)\n
                                        return entry.value\n                                    }\n                                }\n                                }\n                                return null\n                            }\n                            override fun clear() {\n                                backingMap = createJsMap()\n
                                size = 0\n                            }\n                            override fun contains(key: K): Boolean = getEntry(key) != null\n                            override fun get(key: K):
V? = getEntry(key)?.value\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                                private fun
Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n                                    firstOrNull { entry ->
equality.equals(entry.key, key) }\n                                override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n                                    return object : MutableIterator<MutableEntry<K, V>> {\n
                                        var state = -1 // -1 not ready, 0 - ready, 1 -
done\n                                        val keys: Array<String> = js("Object").keys(backingMap)\n                                        var keyIndex = -1\n
                                        var chainOrEntry: dynamic = null\n                                        var isChain = false\n                                        var itemIndex = -1\n                                        var lastEntry:
MutableEntry<K, V>? = null\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
                                                {\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
                                        }\n                                    }\n                                }\n                            }\n                        }\n                    }\n                }\n            }\n        }\n    }\n}

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return state == 0\n        }\n        override fun next(): MutableEntry<K, V> {\n            if (!hasNext())
throw NoSuchElementException()\n                val lastEntry = if (isChain) {\nchainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n                } else {\nchainOrEntry.unsafeCast<MutableEntry<K, V>>()\n                }\n                this.lastEntry = lastEntry\nstate = -1\n                return lastEntry\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\n    private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n        val chainOrEntry = backingMap[hashCode]\n        return if (chainOrEntry === undefined) null 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\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and [InternalHashMap].\n */\n\ninternal interface InternalMap<K, V> : MutableIterable<MutableMap.MutableEntry<K, V>> {\n    val equality: EqualityComparator\n    val size: Int\n\n    operator fun contains(key: K): Boolean\n\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\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 * 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 * Based on GWT InternalStringMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport 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\ninternal 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    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\n        if (oldValue === undefined) {\n            size++\n            structureChanged(host)\n            return null\n        } else {\n            valueMod++\n            return oldValue.unsafeCast<V>()\n        }\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            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
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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        override fun
setValue(newValue:
    V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n        override fun hashCode(): Int =
AbstractMap.entryHashCode(this)\n        override fun toString(): String = AbstractMap.entryToString(this)\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/*\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 * The insertion
order is preserved by maintaining a doubly-linked list of all of its entries.\n */\npublic actual open class
LinkedHashMap<K, V> : HashMap<K,
    V>, MutableMap<K, V> {\n\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     * 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        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            init {\n                next = head\n            }
recordLastKnownStructure(map, this)\n        }\n        override fun hasNext(): Boolean {\n            return
next != null\n        }\n        override fun next(): MutableEntry<K, V> {\n
            checkStructuralChange(map, this)\n            if (!hasNext()) throw NoSuchElementException()\n            val
current = next!!\n            last = current\n            next = current.next.takeIf { it != head }\n            return current\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
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(): 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 * The most recently inserted node is at the end of the
chain, ie.\n * chain.prev.\n */\nprivate var head: ChainEntry<K, V>? = null\n\n/**\n * Add this node to
the end of the chain.\n */\nprivate fun ChainEntry<K, V>.addToEnd() {\n    // This entry is not in the list.\n
check(next == null && prev == null)\n    val _head = head\n    if (_head == null) {\n        head = this\n

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        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    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 IllegalArgumentException 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\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 /**\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) }\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 * Based on GWT LinkedHashMap\n
*\n * Copyright 2008 Google Inc.\n */\n\n package kotlin.collections\n\n /**\n * The implementation of the [MutableSet]
interface, backed by a [LinkedHashMap] instance.\n */\n\n * This implementation preserves the insertion order of
elements during the iteration.\n */\n public actual open class LinkedHashMap<E> : HashSet<E>, MutableSet<E>
{\n\n    internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n /**\n * Constructs a new empty
[LinkedHashSet].\n */\n actual constructor() : super(LinkedHashMap<E, Any>())\n\n /**\n * Constructs a
new [LinkedHashSet] filled with the elements of the specified collection.\n */\n actual constructor(elements:

```

```

Collection<E> : super(LinkedHashMap<E, Any>()) {\n    addAll(elements)\n } \n\n /**\n * Constructs a
new empty [LinkedHashSet].\n * \n * @param initialCapacity the initial capacity (ignored)\n * @param
loadFactor the load factor (ignored)\n * \n * @throws IllegalArgumentException if the initial capacity or
load factor are negative\n * \n actual constructor(initialCapacity: Int, loadFactor: Float) :
super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))\n\n actual constructor(initialCapacity: Int) :
this(initialCapacity, 0.0f)\n\n @PublishedApi\n internal fun build(): Set<E> {\n    (map as
LinkedHashMap<E, Any>).build()\n    return this\n } \n\n internal override fun checkIsMutable():
Unit = map.checkIsMutable()\n\n// public override fun clone(): Any {\n//    return LinkedHashSet(this)\n//
}\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified
[String] elements,\n * which elements the keys as properties of JS object without hashing them.\n * \n\npublic fun
linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\n    return
LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\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\nimport
kotlin.contracts.*\n\n\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@Deprecated(\"Synchronization on any
object is not supported in Kotlin/JS\",
ReplaceWith(\"run(block)\"))\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic
inline fun <R>
synchronized(lock: Any, block: () -> R): R {\n    contract {\n    callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n } \n    return block()\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.io\n\ninternal abstract class BaseOutput {\n
open fun println() {\n    print(\"\\n\")\n } \n\n open fun println(message: Any?) {\n    print(message)\n
println()\n } \n\n abstract fun print(message: Any?)\n\n open fun flush() { }\n\n\n/** JsName used to make the
declaration available outside of module to test it *\n\n@JsName(\"NodeJsOutput\")\n\ninternal class NodeJsOutput(val
outputStream: dynamic) : BaseOutput() {\n    override fun print(message: Any?) {\n    // TODO: Using local
variable because of bug in block decomposition lowering in IR backend\n    val messageString =
String(message)\n    outputStream.write(messageString)\n } \n\n}\n\n\n/** JsName used to make the declaration
available outside of module to test it *\n\n@JsName(\"OutputToConsoleLog\")\n\ninternal class OutputToConsoleLog
: BaseOutput() {\n    override fun print(message: Any?) {\n    console.log(message)\n } \n\n override fun
println(message: Any?) {\n    console.log(message)\n } \n\n override fun println() {\n    console.log(\"\\n\")\n
}\n\n}\n\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in
*\n\n@JsName(\"BufferedOutput\")\n\ninternal open class BufferedOutput : BaseOutput() {\n    var buffer = \"\"\n\n
override fun print(message: Any?) {\n    buffer += String(message)\n } \n\n override fun flush() {\n    buffer
= \"\"\n } \n\n}\n\n\n/** JsName used to make the declaration available outside of module to test it
*\n\n@JsName(\"BufferedOutputToConsoleLog\")\n\ninternal class BufferedOutputToConsoleLog :
BufferedOutput() {\n    override fun print(message: Any?) {\n    var s = String(message)\n    val i =
s.nativeLastIndexOf(\"\\n\", 0)\n    if (i >= 0) {\n    buffer += s.substring(0, i)\n    flush()\n    s =
s.substring(i + 1)\n } \n\n    buffer += s\n } \n\n override fun flush() {\n    console.log(buffer)\n    buffer
= \"\"\n } \n\n}\n\n\n/** JsName used to make the declaration available outside of module to test it and use at
try.kotl.in *\n\n@JsName(\"output\")\n\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\n@kotlin.internal.InlineOnly\nprivate inline fun String(value: Any?):
String = js(\"String\")(value)\n\n\n/** Prints the line separator to the standard output stream. *\n\npublic actual fun
println() {\n    output.println()\n}\n\n\n/** Prints the
given [message] and the line separator to the standard output stream. *\n\npublic actual fun println(message: Any?)
{\n    output.println(message)\n}\n\n\n/** Prints the given [message] to the standard output stream. *\n\npublic actual
fun print(message: Any?) {\n    output.print(message)\n}\n\n\n@SinceKotlin(\"1.6\")\npublic actual fun readln():

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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 * 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.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 * 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
* 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 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\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\n\npublic
inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\n\n val result = js(\n"new
Object()\n").unsafeCast<Date.LocaleOptions>()\n\n init(result)\n\n return result\n\n"}, /*\n\n * Copyright 2010-2020
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\npackage kotlin.dom\n\n\nimport
org.w3c.dom.Document\n\nimport org.w3c.dom.Element\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\nimport kotlin.dom.appendChild as
newAppendElement\n\nimport kotlin.dom.createElement as newCreateElement\n\n\n/**\n\n * Creates a new element
with the specified [name].\n\n * The element is initialized
with the specified [init] function.\n\n */\n\n@LowPriorityInOverloadResolution\n\n@Deprecated(\n\n message = \n"This
API is moved to another package, use 'kotlinx.dom.createElement' instead.\n",\n\n replaceWith =
ReplaceWith(\n\n "this.createElement(name, init)\n",
\n\n "kotlinx.dom.createElement()\n)\n)\n\n@DeprecatedSinceKotlin(warningSince = \n1.4", errorSince = \n1.6)\n\npublic
inline fun Document.createElement(name: String, noinline init: Element.() -> Unit): Element =
this.newCreateElement(name, init)\n\n\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 */\n\n@LowPriorityInOverloadResolution\n\n@Deprecated(\n\n message = \n"This API is moved to another package,
use 'kotlinx.dom.appendChild' instead.\n",\n\n replaceWith = ReplaceWith(\n\n "this.appendChild(name, init)\n",
\n\n "kotlinx.dom.appendChild()\n)\n)\n\n@DeprecatedSinceKotlin(warningSince = \n1.4", errorSince = \n1.6)\n\npublic
inline fun Element.appendChild(name:
String, noinline init: Element.() -> Unit): Element = this.newAppendElement(name, init)\n\n\n/*\n\n * Copyright
2010-2018 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\npackage kotlin.dom\n\n\nimport
org.w3c.dom.Element\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\nimport kotlin.dom.addClass as
newAddClass\n\nimport kotlin.dom.hasClass as newHasClass\n\nimport kotlin.dom.removeClass as
newRemoveClass\n\n\n/**\n\n * Returns true if the element has the given CSS class style in its 'class' attribute
*\n\n */\n\n@LowPriorityInOverloadResolution\n\n@Deprecated(\n\n message = \n"This API is moved to another package,
use 'kotlinx.dom.hasClass' instead.\n",\n\n replaceWith = ReplaceWith(\n\n "this.hasClass(cssClass)\n",
\n\n "kotlinx.dom.hasClass()\n)\n)\n\n@DeprecatedSinceKotlin(warningSince = \n1.4", errorSince = \n1.6)\n\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\n classes are already in class attribute of the element\n *\n * @return true if at least one class has been added\n *\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n  message = \"This API is moved to another package,\n use 'kotlinx.dom.addClass' instead.\",\n  replaceWith = ReplaceWith(\"this.addClass(cssClasses)\",\n \"kotlinx.dom.addClass\")\n)\n * @DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n\ninline fun\n Element.addClass(vararg cssClasses: String): Boolean = this.newAddClass(*cssClasses)\n\n/**\n * Removes all\n [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 * @LowPriorityInOverloadResolution\n * @Deprecated(\n  message = \"This API is moved to another package, use 'kotlinx.dom.removeClass' instead.\",\n  replaceWith\n  = ReplaceWith(\"this.removeClass(cssClasses)\",\n \"kotlinx.dom.removeClass\")\n)\n * @DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n\ninline\n fun Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)\"/>\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\npackage\n kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport\n kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.isElement as newIsElement\nimport\n kotlinx.dom.isText as newIsText\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a\n CDATA_SECTION_NODE.\n *\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n  message = \"This API\n is moved to another package, use 'kotlinx.dom.isText' instead.\",\n  replaceWith = ReplaceWith(\"this.isText\",\n \"kotlinx.dom.isText\")\n)\n * @DeprecatedSinceKotlin(warningSince\n = \"1.4\", errorSince = \"1.6\")\n\npublic val Node.isText: Boolean\n  inline get() = this.newIsText\n\n/**\n * Gets a\n value indicating whether this node is an [Element].\n *\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n  message = \"This API is moved to another package, use 'kotlinx.dom.isElement' instead.\",\n  replaceWith =\n  ReplaceWith(\"this.isElement\", \"kotlinx.dom.isElement\")\n)\n * @DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n\npublic val Node.isElement: Boolean\n  inline get() = this.newIsElement\n\n\"/>\n\n * Copyright\n 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed\n by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\n\npackage\n org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) -> Unit): EventListener =\n EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler: (Event) ->\n Unit) : EventListener {\n  public override fun handleEvent(event: Event) {\n    handler(event)\n  }\n\n  public\n  override fun toString(): String = \"EventListenerHandler($handler)\"\n\n\"/>\n\n * Copyright 2010-2018 JetBrains\n s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0\n license that can be found in the license/LICENSE.txt file.\n *\n *\n\npackage org.w3c.dom\n\npublic external interface\n ItemArrayLike<out T> {\n  val length: Int\n  fun item(index: Int): T?\n\n}\n\n/**\n * Returns the view of this\n `ItemArrayLike<T>` collection as `List<T>`\n *\n *\n\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object :\n AbstractList<T>() {\n  override val size: Int get() = this@asList.length\n\n  override fun get(index: Int): T = when\n (index) {\n    in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()\n    else -> throw\n IndexOutOfBoundsException(\"index $index is not in range [0..$lastIndex]\")\n  }\n\n}\n\n\"/>\n\n * Copyright 2010-2018\n JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code\n is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\n\npackage\n kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport\n kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as newAppendText\nimport\n kotlinx.dom.clear as newClear\n\n/**\n * Removes all the children from this node.\n *\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n  message = \"This API is moved to another package,\n use 'kotlinx.dom.clear' instead.\",\n  replaceWith = ReplaceWith(\"this.clear()\",\n \"kotlinx.dom.clear\")\n)\n * @DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n\npublic inline fun\n Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this
```

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element\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to another
package,
  use 'kotlinx.dom.appendText' instead.\",\n  replaceWith = ReplaceWith(\"this.appendText(text)\",
\"kotlinx.dom.appendText(\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\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.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 * 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@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 * Copyright 2010-2018 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
*\npackage 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\n@file:kotlin.jvm.JvmName(\"GroupingKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.collections\n\n**\n
*\n * Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.\n
*\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n * they group elements by
their keys and then fold each group with some aggregating operation.\n *\n * It is created by attaching `keySelector:
(T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one of `groupingBy` extension
functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * - [Array.groupingBy]\n * -
[CharSequence.groupingBy]\n *\n * For the list of group-and-fold operations available, see the [extension

```

```

functions](#extension-functions) for `Grouping`.
\n *^@SinceKotlin("1.1")\npublic interface Grouping<T, out K>
{\n  /** Returns an [Iterator] over the elements of the source of this grouping. */
\n  fun sourceIterator():
Iterator<T>\n  /** Extracts the key of an [element]. */
\n  fun keyOf(element: T): K\n}\n\n/**
 * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group
sequentially,
\n * passing the previously accumulated value and the current element as arguments, and stores the
results in a new map.
\n * The key for each element is provided by the [Grouping.keyOf] function.
\n *
\n * @param operation function is invoked on each element with the following parameters:
\n * - `key`: the key of the
group this element belongs to;
\n * - `accumulator`: the current value of the accumulator of the group, can be `null`
if it's the first `element` encountered in the group;
\n * - `element`: the element from the source being aggregated;
\n * - `first`: indicates whether it's the first `element` encountered in the group.
\n *
\n * @return a [Map] associating
the key of each group with the result of aggregation of the group elements.
\n *
\n * @sample
samples.collections.Grouping.aggregateByRadix
\n *^@SinceKotlin("1.1")\npublic inline fun <T, K, R>
Grouping<T,
K>.aggregate(\n  operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R): Map<K, R> {\n  return
aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n/**
 * Groups elements from the [Grouping] source by key
and applies [operation] to the elements of each group sequentially,
\n * passing the previously accumulated value and
the current element as arguments,
\n * and stores the results in the given [destination] map.
\n * The key for each
element is provided by the [Grouping.keyOf] function.
\n *
\n * @param operation a function that is invoked on each
element with the following parameters:
\n * - `key`: the key of the group this element belongs to;
\n * -
`accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered
in the group;
\n * - `element`: the element from the source being aggregated;
\n * - `first`: indicates whether it's the
first `element` encountered in the group.
\n *
\n * If the [destination] map
already has a value corresponding to some key,
\n * then the elements being aggregated for that key are never
considered as `first`.
\n *
\n * @return the [destination] map associating the key of each group with the result of
aggregation of the group elements.
\n *
\n * @sample samples.collections.Grouping.aggregateByRadixTo
\n *^@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T,
K>.aggregateTo(\n  destination: M,\n  operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R): M
{\n  for (e in this.sourceIterator()) {\n    val key = keyOf(e)\n    val accumulator = destination[key]\n
destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n  }\n
return destination\n}\n\n/**
 * Groups elements from the [Grouping] source by key and applies [operation] to the
elements of each group sequentially,
\n * passing the previously accumulated value and the current element as
arguments,
\n * and stores the results in a new map.
\n * An initial value of accumulator is provided by [initialValueSelector]
function.
\n *
\n * @param initialValueSelector a function that provides an initial value of accumulator for each
group.
\n * It's invoked with parameters:
\n * - `key`: the key of the group;
\n * - `element`: the first element being
encountered in that group.
\n *
\n * @param operation a function that is invoked on each element with the following
parameters:
\n * - `key`: the key of the group this element belongs to;
\n * - `accumulator`: the current value of the
accumulator of the group;
\n * - `element`: the element from the source being accumulated.
\n *
\n * @return a [Map]
associating the key of each group with the result of accumulating the group elements.
\n *
\n * @sample
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue
\n *^@SinceKotlin("1.1")\npublic
inline fun <T, K, R> Grouping<T, K>.fold(\n  initialValueSelector: (key: K, element: T) -> R,\n
operation: (key: K, accumulator: R, element: T) -> R): Map<K, R> =\n
@Suppress("UNCHECKED_CAST")\n  aggregate { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n\n/**
 * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,
\n * passing the previously accumulated value and the
current element as arguments,
\n * and stores the results in the given [destination] map.
\n * An initial value of
accumulator is provided by [initialValueSelector] function.
\n *
\n * @param initialValueSelector a function that
provides an initial value of accumulator for each group.
\n * It's invoked with parameters:
\n * - `key`: the key of the

```

group;\n * - `element`: the first element being encountered in that group.\n *\n * If the [destination] map already has a value corresponding to some key, that value is used as an initial value of\n * the accumulator for that group and the [initialValueSelector]

function is not called for that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n *

@return the [destination] map associating the key of each group with the result of accumulating the group elements.\n *\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\n *\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n initialValueSelector: (key: K, element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R\n): M =\n @Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { key, acc, e, first ->

operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\n\n\n**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is the same [initialValue] for each group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n *\n * @sample

samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\n *\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n): Map<K, R> =\n @Suppress("UNCHECKED_CAST")\n aggregate { _, acc, e, first -> operation(if (first) initialValue else

acc as R, e) }\n\n\n**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is the same [initialValue] for each 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 value of the accumulator for that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n *\n *

@sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo\n *\n */\n@SinceKotlin("1.1")\npublic

inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n): M =\n @Suppress("UNCHECKED_CAST")\n

aggregateTo(destination) { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\n\n\n**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in a new map.\n * An initial value of accumulator is the first element of the group.\n *\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element

from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n *\n * @sample samples.collections.Grouping.reduceByMaxVowels\n

*/\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n operation: (key: K, accumulator: S, element: T) -> S\n): 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**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and the

current element as arguments, \n * and stores the 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 value of the accumulator for that group and the first element of that group is also \n * subjected to the [operation]. \n * @param operation a function that is invoked on each subsequent element of the group with the following parameters: \n * - `accumulator`: the current value of the accumulator of the group; \n * - `element`: the element from the source being folded; \n * \n * @return the [destination] map associating the key of each group with the result of accumulating the group elements. \n * @sample

```
samples.collections.Grouping.reduceByMaxVowelsTo\n *\n @SinceKotlin("1.1")\n public inline fun <S, T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n destination: M,\n operation: (key: K, accumulator: S, 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 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 initial value of the counter for that group. \n * \n * @return the [destination] 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")\n public 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 sums values provided by the [valueSelector] function for elements in each group \n * 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 initial value of the sum for that group. \n * \n * @return the [destination] map associating the
```

```
key of each group with the sum of elements in the group. \n *\n @SinceKotlin("1.1")\n public inline fun <T, K, M : 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 /**\n * TODO: sum by long and by double overloads\n\n public inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T,
```

```
K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =\n foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}\n\n public inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n fold(0L) { acc, e -> acc + valueSelector(e)}\n\n public inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T, K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}\n\n public inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) -> Double):
```

```
Map<K, Double> =\n fold(0.0) { acc, e -> acc + valueSelector(e)}\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 package
```

```
kotlin.js\n\n @Retention(AnnotationRetention.BINARY)\n @Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n internal annotation class JsNativeImplementation(val implementation: 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 package kotlin.js\n\n /**\n * An interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is [Any?][Any]. \n * \n * @public external interface Json {\n * \n * Calls to the function will be translated to indexing operation (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 * \n * @operator fun get(propertyName: String): Any?\n\n /**\n * Calls of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index operation) with [propertyName]. \n * \n * E.g. for the following code: \n * \n ```kotlin\n * fun test(j: Json, p: String, newValue: Any) {\n * j["prop"] = 1\n * j.set(p, newValue)\n
```

```

* } \n * ``\n * \n * will be generated:\n * ``js\n * function test(j, p, newValue) {\n * j["prop"] =
1;\n * j[p] = newValue;\n * }\n * }\n * ``\n * \n operator fun set(propertyName: String, value:
Any?): Unit\n}\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/**\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/**\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"/*\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\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\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\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\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")\n@InlineOnly\npublic
actual inline fun asin(x: Double): Double = nativeMath.asin(x)\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")\n@InlineOnly\npublic actual inline fun
acos(x: Double): Double = nativeMath.acos(x)\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")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double =
nativeMath.atan(x)\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` y\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")\n@InlineOnly\npublic actual inline fun
atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\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")\n@InlineOnly\npublic actual inline fun sinh(x: Double): Double =

```

`nativeMath.sinh(x)` Computes the hyperbolic cosine 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 cosh(x: Double): Double =`
`nativeMath.cosh(x)` 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: Double): Double =`
`nativeMath.tanh(x)` 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: Double): Double =`
`nativeMath.asinh(x)` 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: Double): Double =`
`nativeMath.acosh(x)` Computes the inverse hyperbolic tangent of the value `[x]`.
 The returned value is `y` such that `tanh(y) == x`.
 Special cases:
`atanh(NaN)` is `NaN`
`atanh(x)` is `NaN` when `x > 1` or `x < -1`
`atanh(1.0)` is `+Inf`
`atanh(-1.0)` is `-Inf`
`@SinceKotlin("1.2")`
`@InlineOnly`
`public actual inline fun atanh(x: Double): Double =`
`nativeMath.atanh(x)` 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: Double, y: Double): Double =`
`nativeMath.hypot(x, y)` 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: Double): Double =`
`nativeMath.sqrt(x)` 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: Double): Double =`
`nativeMath.exp(x)` 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: Double): Double =`
`nativeMath.expm1(x)` 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 fun log(x: Double, base: Double): Double {`
 if (base <= 0.0 || base == 1.0) return Double.NaN
 return
`nativeMath.log(x) / nativeMath.log(base)}`
`nativeMath.log(x)` 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: Double): Double =`
`nativeMath.log(x)` Computes the common logarithm (base 10) of the value `[x]`.
 @see `[ln]` function for special cases.
`@SinceKotlin("1.2")`
`@InlineOnly`
`public actual inline fun log10(x: Double): Double =`
`nativeMath.log10(x)` Computes the binary logarithm (base 2) of the value `[x]`.
 @see `[ln]` function for special cases.
`@SinceKotlin("1.2")`
`@InlineOnly`
`public actual inline fun log2(x: Double): Double =`
`nativeMath.log2(x)` 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
`@SinceKotlin("1.2")`
`@InlineOnly`
`public actual inline fun ln1p(x: Double): Double =`
`nativeMath.log1p(x)` 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: $\text{ceil}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Double): Double =
```

```
nativeMath.ceil(x)\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:  $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun floor(x: Double): Double =
```

```
nativeMath.floor(x)\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n * @return the value [x] having its fractional part truncated.\n * Special cases:  $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun truncate(x: Double): Double =
```

```
nativeMath.trunc(x)\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n * Special cases:  $\text{truncate}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
```

```
*\n@SinceKotlin("1.2")\npublic actual fun round(x: Double): Double {\n    if (x % 0.5 != 0.0) {\n        return nativeMath.round(x)\n    }\n    val floor = floor(x)\n    return if (floor % 2 == 0.0) floor else ceil(x)\n}\n\n/**\n * Returns the absolute value of the given value [x].\n * Special cases:  $\text{abs}(\text{NaN})$  is  $\text{NaN}$ \n * @see absoluteValue extension property for [Double]
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double =
```

```
nativeMath.abs(x)\n\n/**\n * 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\n * Special case:  $\text{sign}(\text{NaN})$  is  $\text{NaN}$ 
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Double): Double =
```

```
nativeMath.sign(x)\n\n/**\n * Returns the smaller of two values.\n * If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double =
```

```
nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n * If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double =
```

```
nativeMath.max(a, b)\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n * Special cases:  $\text{pow}(0.0)$  is  $1.0$ ,  $\text{pow}(1.0) == b$ ,  $\text{pow}(\text{NaN})$  is  $\text{NaN}$ ,  $\text{NaN}.\text{pow}(x)$  is  $\text{NaN}$  for  $x != 0.0$ ,  $\text{pow}(\text{Inf})$  is  $\text{NaN}$  for  $\text{abs}(b) == 1.0$ ,  $\text{pow}(x)$  is  $\text{NaN}$  for  $b < 0$  and  $x$  is finite and not an integer
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic
```

```
actual inline fun Double.pow(x: Double): Double = nativeMath.pow(this, x)\n\n/**\n * Raises this value to the integer power [n].\n * See the other overload of [pow] for details.
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.pow(n: Int): Double =
```

```
nativeMath.pow(this, n.toDouble())\n\n/**\n * Returns the absolute value of this value.\n * Special cases:  $\text{NaN}.\text{absoluteValue}$  is  $\text{NaN}$ \n * @see abs function
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n/**\n * 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\n * Special case:  $\text{NaN}.\text{sign}$  is  $\text{NaN}$ 
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Double.sign: Double get() = nativeMath.sign(this)\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.
```

```
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int): Double = this.withSign(sign.toDouble())\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:  $\text{NaN}.\text{ulp}$  is  $\text{NaN}$ ,  $x.\text{ulp}$  is  $+\text{Inf}$  when  $x$  is  $+\text{Inf}$  or  $-\text{Inf}$ ,  $0.0.\text{ulp}$  is  $\text{Double}.\text{MIN\_VALUE}$ 
```

```
*\n@SinceKotlin("1.2")\npublic actual val Double.ulp: Double get() = when {\n    this < 0 -> (-this).ulp\n    this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n    this == Double.MAX_VALUE -> this - this.nextDown()\n    else -> this.nextUp() - this\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of positive infinity.
```

```
*\n@SinceKotlin("1.2")\npublic actual fun
```

```

Double.nextUp(): Double = when {
    this.isNaN() || this == Double.POSITIVE_INFINITY -> this
    this == 0.0 -> Double.MIN_VALUE
    else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)
}
Returns the [Double] value nearest to this value in direction of negative infinity.

@SinceKotlin("1.2")
public actual fun Double.nextDown(): Double = when {
    this.isNaN() || this == Double.NEGATIVE_INFINITY -> this
    this == 0.0 -> -Double.MIN_VALUE
    else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)
}
Returns the [Double] value nearest to this value in direction from this value towards the value [to].
Special cases:
    - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`
    - `x.nextTowards(x) == x`

@SinceKotlin("1.2")
public actual fun Double.nextTowards(to: Double): Double = when {
    this.isNaN() || to.isNaN() -> Double.NaN
    to == this -> to
    to > this -> this.nextUp()
    else /* to < this */ -> this.nextDown()
}
Rounds this [Double] value to the nearest integer and converts the result to [Int].
Ties are rounded towards positive infinity.
Special cases:
    - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`
    - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`
    - @throws IllegalArgumentException when this value is `NaN`

@SinceKotlin("1.2")
public actual fun Double.roundToInt(): Int = when {
    isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")
    this > Int.MAX_VALUE -> Int.MAX_VALUE
    this < Int.MIN_VALUE -> Int.MIN_VALUE
    else -> nativeMath.round(this).toInt()
}
Rounds this [Double] value to the nearest integer and converts the result to [Long].
Ties are rounded towards positive infinity.
Special cases:
    - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`
    - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`
    - @throws IllegalArgumentException when this value is `NaN`

@SinceKotlin("1.2")
public actual fun Double.roundToLong(): Long = when {
    isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")
    this > Long.MAX_VALUE -> Long.MAX_VALUE
    this < Long.MIN_VALUE -> Long.MIN_VALUE
    else -> nativeMath.round(this).toLong()
}

// endregion

===== Float Math =====
Computes the sine of the angle [x] given in radians.
Special cases:
    - `sin(NaN|+Inf|-Inf)` is `NaN`

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()
Computes the cosine of the angle [x] given in radians.
Special cases:
    - `cos(NaN|+Inf|-Inf)` is `NaN`

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()
Computes the tangent of the angle [x] given in radians.
Special cases:
    - `tan(NaN|+Inf|-Inf)` is `NaN`

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()
Computes the arc sine of the value [x]; the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.
Special cases:
    - `asin(x)` is `NaN`, when  $abs(x) > 1$  or x is `NaN`

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()
Computes the arc cosine of the value [x]; the returned value is an angle in the range from  $0.0$  to  $\pi$  radians.
Special cases:
    - `acos(x)` is `NaN`, when  $abs(x) > 1$  or x is `NaN`

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()
Computes the arc tangent of the value [x]; the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.
Special cases:
    - `atan(NaN)` is `NaN`

@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()
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:
    - `atan2(0.0, 0.0)` is  $0.0$ 
    - `atan2(0.0, x)` is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$ 
    - `atan2(-0.0, x)` is  $-0.0$  for  $x > 0$  and  $-\pi$  for  $x < 0$ 
    - `atan2(y, +Inf)` is  $0.0$  for  $0 < y < +Inf$  and  $-0.0$  for  $-Inf < y < 0$ 
    - `atan2(y, -Inf)` is  $\pi$  for  $0 < y < +Inf$  and  $-\pi$  for  $-Inf < y < 0$ 
    - `atan2(y, 0.0)` is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$ 

```

`atan2(+Inf, x)` is $\text{PI}/2$ for finite `x` `atan2(-Inf, x)` is $-\text{PI}/2$ for finite `x` `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN` `@SinceKotlin("1.2")@InlineOnly@npublic`
`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@npublic 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@npublic 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@npublic actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()`
 * Computes the inverse hyperbolic sine of the value `[x]` `Special cases:` `asinh(NaN)` is `NaN` `asinh(+Inf)` is `+Inf` `asinh(-Inf)` is `-Inf` `@SinceKotlin("1.2")@InlineOnly@npublic actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()`
 Computes the inverse hyperbolic cosine of the value `[x]` `Special cases:` `acosh(NaN)` is `NaN` `acosh(x)` is `NaN` when `x < 1` `acosh(+Inf)` is `+Inf` `@SinceKotlin("1.2")@InlineOnly@npublic actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()`
 Computes the inverse hyperbolic tangent of the value `[x]` `Special cases:` `atanh(NaN)` is `NaN` `atanh(x)` is `NaN` when `x > 1` or `x < -1` `atanh(1.0)` is `+Inf` `atanh(-1.0)` is `-Inf` `@SinceKotlin("1.2")@InlineOnly@npublic actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()`
 Computes `sqrt(x2 + y2)` 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@npublic 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@npublic 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@npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()`
 Computes `exp(x) - 1` `Special cases:` `expm1(NaN)` is `NaN` `expm1(+Inf)` is `+Inf` `expm1(-Inf)` is `-1.0` `@see [exp] function.` `@SinceKotlin("1.2")@InlineOnly@npublic 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@npublic 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@npublic 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.` `@SinceKotlin("1.2")@InlineOnly@npublic actual inline 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.`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN`
 `$\ln(x)$ is NaN where $x < -1.0$`
 `$\ln(-1.0)$ is $-\text{Inf}$`
 `$\ln(+\text{Inf})$ is $+\text{Inf}$`
`@see [ln] function`
`@see [expm1] function`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN`
`@see absoluteValue extension property for [Float]`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()`
`Returns the smaller of two values.`
`If either value is NaN , then the result is NaN .`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)`
`Returns the greater of two values.`
`If either value is NaN , then the result is NaN .`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)`
`Extensions`
`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 NaN`
 `$\text{NaN}.\text{pow}(x)$ is NaN for $x \neq 0.0$`
 `$b.\text{pow}(\text{Inf})$ is NaN for $\text{abs}(b) == 1.0$`
 `$b.\text{pow}(x)$ is NaN for $b < 0$ and x is finite and not an integer`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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.`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN`
`@see abs function`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline 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 NaN`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline val Float.sign: Float get() = nativeMath.sign(this.toDouble()).toFloat()`
`Returns this value with the sign bit same as of the [sign] value.`
`If [sign] is NaN the sign of the result is undefined.`
`Since Kotlin("1.2")`
`InlineOnly`
`public actual inline fun Float.withSign(sign: Float): Float =`


```

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/**\n * Counts the
number of set bits in the binary representation of this [Int] number.\n\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)\n
+ (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/**\n * Counts the number of consecutive most significant bits that
are zero in the binary representation of this [Int] number.\n\n*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
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*/\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*/\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*/\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*/\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
*\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*/\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*/\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*/\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 +
low.countLeadingZeroBits()\n else -> high.countLeadingZeroBits()\n }\n\n/**\n * Counts the number of

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consecutive least 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.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)\npublic
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)\npublic 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 * 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 [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)\npublic 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 * 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 [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\npublic
actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\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\nimport
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")\npublic 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    public open fun finally(onFinally: () -> Unit):
Promise<T>\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        public
fun <S> resolve(e: Promise<S>): Promise<S>\n    }\n}\n\n// It's workaround for KT-19672 since we can fix it
properly until KT-11265 isn't fixed.\n\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

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this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\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(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 */\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 `-opt-in=kotlin.reflect.ExperimentalAssociatedObjects`.\n */\n\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@Retention(value = AnnotationRetention.BINARY)\n\npublic annotation class
ExperimentalAssociatedObjects\n\n/**\n * Makes the annotated annotation class an associated object key.\n */\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)\n\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\n\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 * 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\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?): 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

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isInstanceFunction(value)\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 * 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?\n get() = simpleName"/*\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@file:Suppress("Unsupported")\n\nimport kotlin.reflect.*\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 * 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.toString("\n", "\n", "<", ">")\n\n val nullable = if
(isMarkedNullable) "?" else ""\n\n return classifierName + args + nullable\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

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    override fun toString(): String = "\dynamic"\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 =
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]

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= 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    }\n}\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            metadata.`$kClass$\` = kClass\n            kClass\n        } else {\n
metadata.`$kClass$\`\n        }\n    } else {\n        SimpleKClassImpl(jClass)\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@Suppress("NOT_DOCUMENTED")\npublic external class RegExp(pattern: String, flags: String? =
definedExternally) {\n\n    public fun test(str: String): Boolean\n\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: 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 */\n\npublic fun RegExp.reset() {\n    lastIndex = 0\n}\n\n// TODO: Inherit from array or
introduce asArray() extension\n\n/**\n * Represents the return value of [RegExp.exec].\n */\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

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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 * 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.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 * 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.text\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     UPPERCASE_LETTER(1,
\"Lu\"),\n\n    /**\n     * General category \"Ll\" in the Unicode specification.\n     *\n     LOWERCASE_LETTER(2,
\"Ll\"),\n\n    /**\n     * General category \"Lt\" in the Unicode specification.\n     *\n     TITLECASE_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 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 =

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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\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 * 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    /** Constructs a
string builder that contains the same characters as the specified [content] char sequence. */\n     actual
constructor(content: CharSequence) : this(content.toString()) {\n    }\n\n    /** Constructs an empty string builder. */\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
= 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     * 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())\n                && 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 `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    /**\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\n    @Deprecated("Provided for binary compatibility.",

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level = DeprecationLevel.HIDDEN)\n fun append(value: String): StringBuilder = append(value)\n\n /**\n *
Appends the specified string [value] to this string builder and returns
this instance.\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 /**\n * Returns the current capacity of this string builder.\n * The capacity is the
maximum length this string builder can have before an allocation occurs.\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.")\n actual fun capacity(): Int =
length\n\n /**\n * Ensures that the capacity of this string builder is at least equal to the specified
[minimumCapacity].\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 * 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 /**\n * Returns the index within this string builder of the first occurrence of the specified [string].\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 /**\n * Returns the index within this string builder of
the first occurrence of the specified [string],\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 /**\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 * 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 /**\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 *
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 /**\n * Inserts the string representation of the
specified boolean [value] into this string builder at the specified [index] and returns this instance.\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 +
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 * @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 string = string.substring(0, index) + value +
string.substring(index)\n return this\n }\n\n /**\n * Inserts characters in

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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): String Builder {\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 `"\u0000\u0000\u0000\u0000"` are inserted.\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n
*/\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value:
CharSequence?): String Builder {\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?): String Builder {\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): String Builder = 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 `"\u0000\u0000\u0000\u0000"` 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?): String Builder {\n     AbstractList.checkPositionIndex(index,
length)\n\n     val toInsert = value ?: "\u0000\u0000\u0000\u0000"\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
*/\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 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\n     return string.substring(startIndex)\n
}\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

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[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
`startIndex > endIndex`.
 *^ @SinceKotlin("1.4") @WasExperimental(ExperimentalStdlibApi::class)
 actual fun substring(startIndex: Int, endIndex: Int): String {
    AbstractList.checkBoundsIndexes(startIndex,
endIndex, length)
    return string.substring(startIndex, endIndex)
 }
 /**
  * Attempts to reduce
storage used for this string builder.
 * If the backing storage of this string builder is larger than necessary
to hold its current contents,
 * then it may be resized to become more
space efficient.
 * Calling this method may, but is not required to, affect the value of the [capacity] property.
 * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal to the length of
the string builder.
 *^ @SinceKotlin("1.4") @WasExperimental(ExperimentalStdlibApi::class)
 actual fun trimToSize() {}
 override fun toString(): String = string
 /**
  * Clears the content of
this string builder making it empty and returns this instance.
 * @sample
samples.text.Strings.clearStringBuilder
 *^ @SinceKotlin("1.3") public fun clear(): StringBuilder {
    string = ""
    return this
 }
 /**
  * Sets the character at the specified [index] to the specified
[value].
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 *^ @SinceKotlin("1.4") @WasExperimental(ExperimentalStdlibApi::class)
 public operator fun set(index: Int, value: Char) {
    AbstractList.checkElementIndex(index, length)
    string = string.substring(0, index) + value + string.substring(index + 1)
 }
 /**
  * Replaces characters in
the specified range of this string builder with characters in the specified string [value] and returns this instance.
 * @param startIndex the beginning (inclusive) of the range to replace.
 * @param endIndex the end
(exclusive) of the range to replace.
 * @param value the string to replace with.
 * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length
of this string builder, or `startIndex > endIndex`.
 *^ @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class) public fun setRange(startIndex: Int, endIndex: Int, value:
String): StringBuilder {
    checkReplaceRange(startIndex, endIndex, length)
    this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)
    return this
 }
 private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {
    if (startIndex < 0 ||
startIndex > length) {
        throw IndexOutOfBoundsException("startIndex: $startIndex, length: $length")
    }
    if (startIndex > endIndex) {
        throw IllegalArgumentException("startIndex($startIndex) >
endIndex($endIndex)")
    }
 }
 /**
  * Removes the character at the specified [index] from this string
builder and returns this instance.
 * If the `Char` at the specified [index] is part of a supplementary code
point, this method does not remove the entire supplementary character.
 * @param index the index of
`Char` to remove.
 * @throws IndexOutOfBoundsException if [index] is out of bounds of this string
builder.
 *^ @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class) public fun deleteAt(index: Int): StringBuilder {
    AbstractList.checkElementIndex(index, length)
    string = string.substring(0, index) + string.substring(index +
1)
    return this
 }
 /**
  * Removes characters in the specified range from this string builder and
returns this instance.
 * @param startIndex the beginning (inclusive) of the range to remove.
 *
 @param endIndex the end (exclusive) of the range to remove.
 * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >
endIndex`.
 *^ @SinceKotlin("1.4") @WasExperimental(ExperimentalStdlibApi::class) public fun
deleteRange(startIndex: Int, endIndex: Int): StringBuilder {
    checkReplaceRange(startIndex, endIndex,
length)
    string = string.substring(0, startIndex) + string.substring(endIndex)
    return this
 }
 /**
  * Copies characters from this string builder into the [destination] character
array.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the
array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the range to copy, 0 by
default.
 * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is
out of range of this string builder indices or when `startIndex > endIndex`.
 * @throws

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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 * Appends characters in a subarray of the specified character array
[value] to this string builder and returns this instance.\n * Characters are appended in order, starting at
specified [startIndex].\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 * @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 * @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)\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
* The inserted characters go in same order as in the [value] array, starting at [index].\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 * @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 * The inserted characters go in the
same order as in the [value] character sequence, starting at [index].\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 */\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\n    val
stringCsq = value.toString()\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n

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string =
string.substring(0, index) + stringCsq.substring(startIndex, endIndex) + string.substring(index)\n    return this\n
}\n}\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@\n@SinceKotlin("1.3")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.clear(): StringBuilder = this.clear()\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@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline operator fun
StringBuilder.set(index: Int, value: Char) = this.set(index, value)\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@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =\n    this.setRange(startIndex,
endIndex, value)\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@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.deleteAt(index:
Int): StringBuilder = this.deleteAt(index)\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@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBulder
= this.deleteRange(startIndex, endIndex)\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
*\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 *\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@\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE",
"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
this.length) =\n    this.toCharArray(destination, destinationOffset, startIndex, endIndex)\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

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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 * @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@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER",
"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.appendRange(value: CharArray, startIndex:
Int, endIndex: Int): StringBuilder =\n    this.appendRange(value, startIndex, endIndex)\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@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex:
Int): StringBuilder =\n    this.appendRange(value, startIndex, endIndex)\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@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER",
"NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.insertRange(index: Int, value: CharArray,
startIndex: Int, endIndex: Int): StringBuilder =\n    this.insertRange(index, value, startIndex, endIndex)\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 *\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)\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", /*\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 * 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
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function available on non-nullable String, [toBooleanStrict] and [toBooleanStrictOrNull].\n

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*^@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 IllegalArgumentException 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
IllegalArgumentException 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 IllegalArgumentException 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 IllegalArgumentException 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

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[radix].\n *\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
\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 $radix was not in valid range 2..36")\n
}\n return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\n char >= '0' && char <=
'9' -> char - '0'\n char >= 'A' && char <= 'Z' -> char - 'A' + 10\n char >= 'a' && char <= 'z' -> char - 'a' + 10\n
char < '\u0080' -> -1\n char >= '\uFF21' && char <= '\uFF3A' -> char - '\uFF21'
+ 10 // full-width latin capital letter\n char >= '\uFF41' && char <= '\uFF5A' -> char - '\uFF41' + 10 // full-width
latin small letter\n else -> char.digitToIntImpl()\n}.let { if (it >= radix) -1 else it }\n", /*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n package kotlin.text\nimport
kotlin.js.RegExp\n\n/**\n * Provides enumeration values to use to set regular expression options.\n *\n public actual
enum class RegexOptions(val value: String) {\n /** Enables case-insensitive matching. *\n
IGNORE_CASE("i"),\n /** Enables multiline mode.\n *\n * In multiline mode the expressions `^` and `$`
match just after or just before,\n *\n * respectively, a line terminator or the end of the input sequence. *\n
MULTILINE("m")\n}\n\nprivate fun Iterable<RegexOption>.toFlags(prepend: String): String
= joinToString("\", prefix = prepend) { it.value }\n\n/**\n * Represents the results from a single capturing group
within a [MatchResult] of [Regex].\n *\n * @param value The value of captured group.\n *\n public 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 *\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
*\n and
[http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n
*\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 *\n that
enables Unicode-related features in regular
expressions. This also makes the pattern syntax more strict,\n *\n for example, prohibiting unnecessary escape
sequences.\n *\n * @constructor Creates a regular expression from the specified [pattern] string and the specified set
of [options].\n *\n public actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\n\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\n /** Creates a regular
expression from the specified [pattern] string and the default options. *\n public actual constructor(pattern:
String) : this(pattern, emptySet())\n\n /** The pattern string of this regular expression. *\n public actual val
pattern: String = pattern\n\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('^') && pattern.endsWith('$'))\n nativePattern\n else\n return
RegExp("\^${pattern.trimStart('^').trimEnd('$')}$", options.toFlags("gu"))\n }.also {\n
nativeMatchesEntirePattern = it }\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

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== 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\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\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\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     *\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\n    public actual fun replace(input: CharSequence,

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replacement: String): String {
    if (!replacement.contains("\\\\") && !replacement.contains('$')) {
        return input.toString().nativeReplace(nativePattern, replacement)
    }
    substituteGroupRefs(it, replacement)
}

/**
 * Replaces all occurrences of this regular expression in the specified [input] string with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a replacement for that match.
 */
public actual fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {
    var match = find(input)
    if (match == null) return input.toString()
    var lastStart = 0
    val length = input.length
    val sb = StringBuilder(length)
    do {
        val foundMatch = match!!
        sb.append(input, lastStart, foundMatch.range.start)
        sb.append(transform(foundMatch))
        lastStart = foundMatch.range.endInclusive + 1
        match = foundMatch.next()
    } while (lastStart < length && match != null)
    if (lastStart < length) {
        sb.append(input, lastStart, length)
    }
    return sb.toString()
}

/**
 * Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.
 * The replacement string may contain references to the captured groups during a match. Occurrences of `index` in the replacement string will be substituted with the subsequences corresponding to the captured groups with the specified index.
 * The first digit after '$' is always treated as part of group reference. Subsequent digits are incorporated into `index` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components of the group reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.
 * Backslash character '\\' can be used to include the succeeding character as a literal in the replacement string, e.g, '\\$' or '\\\\'.
 * [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.
 * Note that referring named capturing groups by name is not supported currently in Kotlin/JS.
 * However, you can still refer them by index.
 * @param input the char sequence to find a match of this regular expression in
 * @param replacement the expression to replace the found match with
 * @return the result of replacing the first occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression
 * @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist
 */
public actual fun replaceFirst(input: CharSequence, replacement: String): String {
    if (!replacement.contains("\\\\") && !replacement.contains('$')) {
        val nonGlobalOptions = options.toFlags("u")
        return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)
    }
    val match = find(input) ?: return input.toString()
    return buildString {
        append(input.substring(0, match.range.first))
        append(substituteGroupRefs(match, replacement))
        append(input.substring(match.range.last + 1, input.length))
    }
}

/**
 * Splits the [input] CharSequence to a list of strings around matches of this regular expression.
 * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.
 * Zero by default means no limit is set.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun split(input: CharSequence, limit: Int = 0): List<String> {
    requireNonNegativeLimit(limit)
    val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }
    val result = mutableListOf<String>()
    var lastStart = 0
    for (match in matches) {
        result.add(input.subSequence(lastStart, match.range.start).toString())
        lastStart = match.range.endInclusive + 1
    }
    result.add(input.subSequence(lastStart, input.length).toString())
    return result
}

/**
 * Splits the [input] CharSequence to a sequence of strings around matches of this regular expression.
 * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.
 * Zero by default means no limit is set.
 */
@sample samples.text.Regexps.splitToSequence
@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")

```



```

missing')\n\n        if (replacement[index] == '{')\n            throw IllegalArgumentException("Named capturing
group reference currently is not supported")\n\n        if (replacement[index] !in '0'..'9')\n            throw
IllegalArgumentException("Invalid capturing group reference")\n\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 $groupIndex does not exist")\n\n        result.append(match.groupValues[groupIndex])\n        index = endIndex\n    } else {\n        result.append(char)\n    } }\n    return
result.toString()\n}\n\nprivate fun String.readGroupIndex(startIndex: Int, groupCount: Int): Int {\n    // at least one
digit after '$' 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    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 * \n * expect class StringBuilder : Appendable,
CharSequence {\n *     /** Constructs an empty string builder. */\n     constructor()\n *     /** Constructs an empty string
builder with the specified initial [capacity]. */\n     constructor(capacity: Int)\n *     /** Constructs a string builder that
contains the same characters as the specified [content] char sequence. */\n     constructor(content: CharSequence)\n *     /**
Constructs a string builder that contains the same characters as the specified [content] string. */\n     @SinceKotlin("1.3")\n //
@ExperimentalStdlibApi\n     constructor(content: String)\n *     override val length:
Int\n *     override operator fun get(index: Int): Char\n *     override fun subSequence(startIndex:
Int, endIndex: Int): CharSequence\n *     override fun append(value: Char): StringBuilder\n *     override fun
append(value: CharSequence?): StringBuilder\n *     override fun append(value: CharSequence?, startIndex: Int,
endIndex: Int): StringBuilder\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 *     * 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 *     *
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 *     * 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 *     * Appends the
specified string [value] to this string builder and returns this instance.\n *     * \n *     * If [value] is `null`, then the four
characters `"\u0000\u0000\u0000\u0000"` are appended.\n *     * \n *     * @SinceKotlin("1.3")\n     fun append(value: String?):
StringBuilder\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

```

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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 [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 *\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 /**\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): StringBuilder\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 fun
insert(index: Int, value: Char): StringBuilder\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 fun
insert(index: Int, value: CharArray): StringBuilder\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 fun insert(index: Int, value: CharSequence?):
StringBuilder\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 fun insert(index: Int, value: Any?): StringBuilder\n\n\n /**\n

```

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    * 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 `"\u0000\u0000\u0000\u0000"` 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     *\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     *\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     *\n     * then it may be resized to become more space efficient.\n     *\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     * 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 expect fun StringBuilder.clear(): StringBuilder\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 expect operator fun StringBuilder.set(index: Int, value: Char)\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 expect fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\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 expect fun StringBuilder.deleteAt(index: Int): StringBuilder\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 expect fun

```

`StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder`
Copies characters from this string builder into the [destination] character array.
@param destination the array to copy to.
@param destinationOffset the position in the array to copy to, 0 by default.
@param startIndex the beginning (inclusive) of the range to copy, 0 by default.
@param endIndex the end (exclusive) of the range to copy, length of this string builder by default.
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder 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.

`StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length)`
Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.
@param value the array from which characters are appended.
@param startIndex the beginning (inclusive) of the subarray to append.
@param endIndex the end (exclusive) of the subarray to append.
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.

`StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder`
Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.
@param value the character sequence from which a subsequence is appended.
@param startIndex the beginning (inclusive) of the subsequence to append.
@param endIndex the end (exclusive) of the subsequence to append.
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.

`StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder`
Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.
The inserted characters go in same order as in the [value] array, starting at [index].
@param index the position in this string builder to insert at.
@param value the array from which characters are inserted.
@param startIndex the beginning (inclusive) of the subarray to insert.
@param endIndex the end (exclusive) of the subarray to insert.
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.
@throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.

`StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder`
Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.
The inserted characters go in the same order as in the [value] character sequence, starting at [index].
@param index the position in this string builder to insert at.
@param value the character sequence from which a subsequence is inserted.
@param startIndex the beginning (inclusive) of the subsequence to insert.
@param endIndex the end (exclusive) of the subsequence to insert.
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.
@throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.

`StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder`
@Suppress("EXTENSION_SHADOWED_BY_MEMBER")
@Deprecated("Use

```

append(value: Any?) instead", ReplaceWith("append(value = obj)"),
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 *\n\npackage
kotlin.text\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")\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")\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")\npublic actual fun

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String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeEndsWith(suffix)
    else
        return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)
}
@Deprecated("Use Regex.matches() instead")
ReplaceWith("regex.toRegex().matches(this)")
@DeprecatedSinceKotlin(warningSince = "1.6")
public fun String.matches(regex: String): Boolean {
    @Suppress("DEPRECATION")
    val result = this.match(regex)
    return result != null
}
&& result.size != 0
}
/**
 * Returns `true` if this string is empty or consists solely of whitespace characters.
 */
@sample samples.text.Strings.stringIsBlank
*/
public actual fun CharSequence.isBlank(): Boolean = length == 0 || indices.all { this[it].isWhitespace() }
}
/**
 * Returns `true` if this string is equal to [other], optionally ignoring character case.
 */
* Two strings are considered to be equal if they have the same length and the same character at the same index.
* If [ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()` on each character is compared.
*/
* @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.
*/
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean {
    if (this == null) return other == null
    if (other == null) return false
    if (!ignoreCase) return this == other
    if (this.length != other.length) return false
    for (index in 0 until this.length) {
        val thisChar = this[index]
        val otherChar = other[index]
        if (!thisChar.equals(otherChar, ignoreCase))
            return false
    }
    return true
}
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =
    regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)
}
/**
 * Returns a copy of this string having its first letter titlecased using the rules of the default locale,
 * or the original string if it's empty or already starts with a title case letter.
 */
* The title case of a character is usually the same as its upper case with several exceptions.
* The particular list of characters with the special title case form depends on the underlying platform.
*/
* @sample samples.text.Strings.capitalize
*/
@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString() }"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public actual fun String.capitalize(): String {
    return if (isEmpty()) substring(0, 1).uppercase() + substring(1) else this
}
/**
 * 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.decitalize
*/
@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase() }"))
@DeprecatedSinceKotlin(warningSince = "1.5")
public actual fun String.decitalize(): String {
    return if (isEmpty()) substring(0, 1).lowercase() + substring(1) else this
}
/**
 * Returns a string containing this char sequence repeated [n] times.
 */
* @throws [IllegalArgumentException]
when n < 0
*/
* @sample samples.text.Strings.repeat
*/
public actual fun CharSequence.repeat(n: Int): String {
    require(n >= 0) { "Count 'n' must be non-negative, but was $n." }
    return when (n) {
        0 -> ""
        1 -> this.toString()
        else -> {
            var result = ""
            if (!isEmpty()) {
                var s = this.toString()
                var count = n
                while (true) {
                    if ((count and 1) == 1)
                        result += s
                    count = count ushr 1
                    if (count == 0)
                        break
                    s += s
                }
            }
            return result
        }
    }
}
/**
 * Returns a new string obtained by replacing all occurrences of the [oldValue] substring in this string
 * with the specified [newValue] string.
 */
* @sample samples.text.Strings.replace
*/
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(Regex(Regex.escape(oldValue)), if (ignoreCase) "gui" else "gu"),
    Regex.nativeEscapeReplacement(newValue))
}
/**
 * Returns a new string with all occurrences of [oldChar] replaced with [newChar].
 */
* @sample samples.text.Strings.replace
*/
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun

```

```

String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gui\" else \"gu\"),\n
newChar.toString())\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual\nfun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"ui\" else \"u\"),\n
Regex.nativeEscapeReplacement(newValue))\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGU\n
MENTS\")\npublic\n
actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"ui\" else \"u\"),\n
newChar.toString())\n\n\"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language\n
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/** Returns the negative [size] if [throwOnMalformed] is\n
false, throws [CharacterCodingException] otherwise. */\nprivate fun malformed(size: Int, index: Int,\n
throwOnMalformed: Boolean): Int {\n    if (throwOnMalformed) throw CharacterCodingException(\"Malformed\n
sequence starting at ${index - 1}\")\n    return -size\n}\n\n/**\n * Returns code point corresponding to UTF-16\n
surrogate pair,\n * where the first of the pair is the [high] and the second\n
is in the [string] at the [index].\n * Returns zero if the pair is malformed and [throwOnMalformed] is false.\n * \n * \n * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\n * \n */\nprivate fun\n
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,\n
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\n
[byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed and\n
[throwOnMalformed] is false.\n * \n * @throws CharacterCodingException if the sequence of two bytes is\n
malformed and [throwOnMalformed] is true.\n * \n */\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index:\n
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 !=\n
0x80) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    return (byte1 shl 6) xor byte2 xor\n
0xF8\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the\n
sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-\n
positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is\n
malformed and [throwOnMalformed] is false.\n * \n * @throws CharacterCodingException if the sequence of three\n
bytes is malformed and [throwOnMalformed] is true.\n * \n */\nprivate fun codePointFrom3(bytes: ByteArray,\n
byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex) {\n        return\n
malformed(0, index, throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte1 and 0xF == 0)\n
{\n        if (byte2 and 0xE0 != 0xA0) {\n            // Non-shortest form\n            return malformed(0, index,\n
throwOnMalformed)\n        }\n    } else if (byte1 and 0xF == 0xD) {\n        if (byte2 and 0xE0 != 0x80) {\n            //\n
Surrogate code point\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte2 and 0xC0\n
!= 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\n
0xC0 != 0x80) {\n        return malformed(1, index, throwOnMalformed)\n    }\n    return (byte1 shl 12) xor (byte2\n
shl 6) xor byte3 xor -0x1E080\n}\n\n/**\n * Returns code point\n
corresponding to UTF-8 sequence of four bytes,\n * where the first byte of the sequence is the [byte1] and the\n
others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number of bytes\n
from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed] is false.\n * \n * \n * @throws CharacterCodingException if the sequence of four bytes is malformed and [throwOnMalformed] is\n
true.\n * \n */\nprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:\n

```

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Boolean): Int {\n  if (index >= endIndex) {\n    malformed(0, index, throwOnMalformed)\n  }\n  val byte2 =
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
*/\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      bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[1]\n      bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\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      }\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
*\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

```



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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 = startIndex\n    val stringBuilder = StringBuilder()\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                        stringBuilder.append(REPLACEMENT_CHAR)\n
                    byteIndex += -code\n                    } else {\n                        stringBuilder.append(code.toChar())\n
byteIndex += 1\n                    }\n                }\n                byte shr 4 == -2 -> {\n                    val code = codePointFrom3(bytes,
byte, byteIndex, endIndex, 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, 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 += 3\n                    }\n                }\n                else -> {\n                    malformed(0, byteIndex,
throwOnMalformed)\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    }\n                }\n            }\n
return stringBuilder.toString()\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\n/**\n * Returns the detailed description of this throwable with its stack trace.\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@SinceKotlin("1.4")\n\npublic
actual fun Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n\n/**\n * Prints the
[detailed description][Throwable.stackTraceToString] of this throwable to console error output.\n
*\n@SinceKotlin("1.4")\n\npublic actual fun Throwable.printStackTrace() {\n
console.error(this.stackTraceToString())\n}\n\n/**\n * Adds the specified exception to the list of exceptions that
were\n * suppressed in order to deliver this exception.\n * \n@SinceKotlin("1.4")\n\npublic actual fun
Throwable.addSuppressed(exception:
Throwable) {\n    if (this !== exception) {\n        val suppressed =
this.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")\n\npublic actual val Throwable.suppressedExceptions: List<Throwable>\n    get() {\n
return this.asDynamic()._suppressed?.unsafeCast<List<Throwable?>>() ?: emptyList()\n    }\n\nprivate class
ExceptionTraceBuilder {\n    private val target = StringBuilder()\n    private val visited = arrayOf<Throwable>()\n
private var topStack: String = ""\n    private var topStackStart: Int = 0\n    fun buildFor(exception: Throwable):
String {\n        exception.dumpFullTrace("", "")\n        return target.toString()\n    }\n
private fun hasSeen(exception: Throwable): Boolean = visited.any { it === exception }\n    private fun
Throwable.dumpFullTrace(indent: String, qualifier: String) {\n        this.dumpSelfTrace(indent, qualifier) ||
return\n        var cause = this.cause\n        while (cause != null) {\n            cause.dumpSelfTrace(indent, "Caused
by: ") || return\n            cause = cause.cause\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 false\n        }\n        visited.asDynamic().push(this)\n        var

```

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stack = this.asDynamic().stack as String?
if (stack != null) {
    val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }
    if (stackStart == 0) target.append(shortInfo).append("\n")
    if (topStack.isEmpty()) {
        topStack = stack
        topStackStart = stackStart
    } else {
        stack = dropCommonFrames(stack, stackStart)
    }
    if (indent.isNotEmpty()) {
        // indent stack, but avoid indenting exception message lines
        val messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\n' }
        stack.lineSequence().forEachIndexed { index: Int, line: String ->
            if (index >= messageLines) target.append(indent)
            target.append(line).append("\n")
        }
    } else {
        target.append(stack).append("\n")
    }
    if (suppressed.isNotEmpty()) {
        val suppressedIndent = indent + "  "
        for (s in suppressed) {
            s.dumpFullTrace(suppressedIndent, "Suppressed: ")
        }
        return true
    }
}

private fun dropCommonFrames(stack: String, stackStart: Int): String {
    var commonFrames: Int = 0
    var lastBreak: Int = 0
    var preLastBreak: Int = 0
    for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {
        val c = stack[stack.lastIndex - pos]
        if (c != topStack[topStack.lastIndex - pos]) {
            break
        }
        if (c == '\n') {
            commonFrames += 1
            preLastBreak = lastBreak
            lastBreak = pos
        }
    }
    if (commonFrames <= 1) return stack
    while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)] == ' ') {
        preLastBreak -= 1
    }
    // leave 1 common frame to ease matching with the top exception
    return stack.dropLast(preLastBreak) + "... and ${commonFrames - 1} more common stack frames skipped"
}

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 */
package kotlin.time
import kotlin.js.json
import kotlin.math.*
internal actual inline val durationAssertionsEnabled: Boolean get() = true
internal actual fun formatToExactDecimals(value: Double, decimals: Int): String {
    val rounded = if (decimals == 0) {
        value
    } else {
        val pow = 10.0.pow(decimals)
        JsMath.round(abs(value) * pow) / pow * sign(value)
    }
    return if (abs(rounded) < 1e21) {
        // toFixed switches to scientific format after 1e21
        rounded.asDynamic().toFixed(decimals).unsafeCast<String>()
    } else {
        // toPrecision outputs the specified number of digits, but only for positive numbers
        val positive = abs(rounded)
        val positiveString = positive.asDynamic().toPrecision(ceil(log10(positive)) + decimals).unsafeCast<String>()
        if (rounded < 0) "-" + positiveString
        else positiveString
    }
}
internal actual fun formatUpToDecimals(value: Double, decimals: Int): String {
    return value.asDynamic().toLocaleString("en-us", json("maximumFractionDigits" to decimals)).unsafeCast<String>()
}

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 */
package kotlin.time
@SinceKotlin("1.6")
@WasExperimental(ExperimentalTime::class)
public actual enum class DurationUnit(internal val scale: Double) {
    /**
     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.
     */
    NANoseconds(1e0),
    /**
     * Time unit representing one microsecond, which is 1/1000 of a millisecond.
     */
    MICROseconds(1e3),
    /**
     * Time unit representing one millisecond, which is 1/1000 of a second.
     */
    MILLIseconds(1e6),
    /**
     * Time unit representing one second.
     */
    SECONDS(1e9),
    /**
     * Time unit representing one minute.
     */
    MINUTES(60e9),
    /**
     * Time unit representing one hour.
     */
    HOURS(3600e9),
    /**
     * Time unit representing one day, which is always equal to 24 hours.
     */
    DAYS(86400e9)
}
internal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {
    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)
    return when {
        sourceCompareTarget > 0 -> value *

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(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        sourceCompareTarget > 0 -> value *
(sourceUnit.scale / targetUnit.scale).toLong()\n        sourceCompareTarget < 0 -> value / (targetUnit.scale /
sourceUnit.scale).toLong()\n        else -> value\n    }\n}\n}\n\n@SinceKotlin("1.5")\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 * 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\nimport
org.w3c.performance.Performance\n\n@SinceKotlin("1.3")\n@ExperimentalTime\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\n    override fun markNow(): TimeMark = actualSource.markNow()\n}\n\ninternal external interface Process
{\n    fun hrtime(time: Array<Double> = definedExternally):
Array<Double>\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\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\n    override fun toString(): String =
\n    }\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal class
PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {\n    override fun read(): Double = performance.now()\n    override fun toString():
String =\n    }\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal
object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n    override
fun read(): Double = kotlin.js.Date.now()\n    override fun toString(): String =\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
kotlinx.dom\n\nimport org.w3c.dom.*\nimport kotlin.contracts.*\n\n/*\n * Creates a new element with the
specified [name].\n * *\n * The element is initialized with the specified [init] function.\n */\n\n@SinceKotlin("1.4")\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 * 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\n@SinceKotlin("1.4")\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 * 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

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license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\n\n/** Returns true if the element has the given CSS class style in its 'class' attribute */\n@SinceKotlin("1.4")\nfun Element.hasClass(cssClass: String): Boolean = className.matches("\\\\\\"(\\^.*\\|s+)\$cssClass(\\|s+.*)"\\.toRegex())\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@SinceKotlin("1.4")\nfun Element.addClass(vararg cssClasses: String): Boolean {\n val missingClasses = cssClasses.filterNot { hasClass(it) }\n if (missingClasses.isNotEmpty()) {\n val presentClasses = className.trim()\n className = buildString {\n append(presentClasses)\n if (!presentClasses.isEmpty()) {\n append(" ")\n }\n missingClasses.joinTo(this, " ")\n }\n return true\n }\n return false\n}\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@SinceKotlin("1.4")\nfun Element.removeClass(vararg cssClasses: String): Boolean {\n if (cssClasses.any { hasClass(it) }) {\n val toBeRemoved = cssClasses.toSet()\n className = className.trim().split("\\\\|s+\\.toRegex()).filter { it !in toBeRemoved }.joinToString("\\")\n return true\n }\n return false\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\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage kotlinx.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified single [option].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified set of [options].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\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\npackage kotlinx.dom\n\nimport org.w3c.dom.\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n */\n@SinceKotlin("1.4")\npublic val Node.isText: Boolean\n get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating whether this node is an [Element].\n */\n@SinceKotlin("1.4")\npublic val Node.isElement: Boolean\n get() = nodeType == Node.ELEMENT_NODE\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 * Removes all the children from this node.\n */\n@SinceKotlin("1.4")\npublic

fun Node.clear() {\n while (hasChildNodes()) {\n removeChild(firstChild!)\n }\n}\n\n/**\n * Creates text node and append it to the element.\n * */\n * @return this element\n */\n@SinceKotlin("1.4")\nfun Element.appendChild(text: String): Element {\n appendChild(ownerDocument!!.createTextNode(text))\n return this\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

*/\n\npackage org.w3c.dom\n\n@Deprecated("Use UnionMessagePortOrWindowProxy instead.")\nReplaceWith("UnionMessagePortOrWindowProxy")\nntypealias UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy\n\n@Deprecated("Use `as` instead.", ReplaceWith("`as`"))\nvar HTMLLinkElement.as_:\n get() = `as`\n set(value) {\n `as` = value\n }\n\n@Deprecated("Use `is` instead.", ReplaceWith("`is`"))\nvar

ElementCreationOptions.is_:\n get() = `is`\n set(value) {\n `is` = value\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

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org.khronos.webgl\n\nimport kotlin.js.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external
interface WebGLContextAttributes {\n    var alpha: Boolean? /* = true */\n        get() = definedExternally\n
set(value) = definedExternally\n    var depth: Boolean? /* = true */\n        get() = definedExternally\n        set(value)
= definedExternally\n    var stencil: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var antialias: Boolean? /* = true */\n        get() = definedExternally\n        set(value)
= definedExternally\n    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\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,

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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)\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 disableVertexArray(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
enableVertexArray(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 getVertexAttrib(index: Int, pname: Int): Any?\n fun
getVertexAttribOffset(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,

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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

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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 * 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
* 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 * 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

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        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,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\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 */\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 */\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 */\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\",
\"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

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}\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",
"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 *\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 *\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 *\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 *\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}

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    }
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun Float64Array.get(index: Int):
Double = asDynamic()[index]
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun Float64Array.set(index: Int,
value: Double) { asDynamic()[index] = value }
/** Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin
*/
public external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val
byteLength: Int
    fun getInt8(byteOffset:
Int): Byte
    fun getUint8(byteOffset: Int): Byte
    fun getInt16(byteOffset: Int, littleEndian: Boolean =
definedExternally): Short
    fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short
    fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int
    fun getUint32(byteOffset: Int,
littleEndian: Boolean = definedExternally): Int
    fun getFloat32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Float
    fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double
    fun setInt8(byteOffset: Int, value: Byte)
    fun setUint8(byteOffset: Int, value: Byte)
    fun setInt16(byteOffset:
Int, value: Short, littleEndian: Boolean = definedExternally)
    fun setUint16(byteOffset: Int, value: Short,
littleEndian: Boolean = definedExternally)
    fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean =
definedExternally)
    fun setUint32(byteOffset: Int, value: Int, littleEndian:
Boolean = definedExternally)
    fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean =
definedExternally)
    fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean =
definedExternally)
}
public external interface BufferDataSource
public external interface
TexImageSource
/** 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.
*/
NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
See github.com/kotlin/dukat for
details
package org.w3c.dom.clipboard
import kotlin.js.*
import org.khronos.webgl.*
import
org.w3c.dom.*
import org.w3c.dom.events.*
public external interface ClipboardEventInit : EventInit {
    var
clipboardData: DataTransfer? /* = null */
    get() = definedExternally
    set(value) =
definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public
inline fun ClipboardEventInit(clipboardData: DataTransfer? = null, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): ClipboardEventInit {
    val o = js("{}")
    o["clipboardData"] = clipboardData
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
/** Exposes the JavaScript
[ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin
*/
public external
open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {
    open
val clipboardData: DataTransfer?
    companion object {
        val NONE: Short
        val
CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
/** Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to
Kotlin
*/
public external
abstract class Clipboard : EventTarget {
    fun read(): Promise<DataTransfer>
    fun readText():
Promise<String>
    fun write(data: DataTransfer): Promise<Unit>
    fun writeText(data: String):
Promise<Unit>
}
public external interface ClipboardPermissionDescriptor {
    var allowWithoutGesture:
Boolean? /* = false */
    get() = definedExternally
    set(value) =
definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {
    val
o = js("{}")
    o["allowWithoutGesture"] = allowWithoutGesture
    return o
}
/** Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed by the

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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

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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\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic 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\npublic external abstract class StyleSheet {\n    open val type: String\n    open val href: String?\n    open val ownerNode: UnionElementOrProcessingInstruction?\n    open val parentStyleSheet: StyleSheet?\n    open val title: String?\n    open val media: MediaList\n    open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n */\n\npublic external abstract class CSSStyleSheet : StyleSheet {\n    open val ownerRule: CSSRule?\n    open val cssRules: CSSRuleList\n    fun insertRule(rule: String, index: Int): Int\n    fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n */\n\npublic external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n    override fun item(index: Int): StyleSheet?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic 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\npublic external interface LinkStyle {\n    val sheet: StyleSheet?\n    get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n */\n\npublic external abstract class CSSRuleList : ItemArrayLike<CSSRule> {\n    override fun item(index: Int): CSSRule?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic 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\npublic external abstract class CSSRule {\n    open val type: Short\n    open var cssText: String\n    open val parentRule: CSSRule?\n    open val parentStyleSheet: CSSStyleSheet?\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 [CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n */\n\npublic external abstract class CSSStyleRule : CSSRule {\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\npublic external abstract class CSSImportRule : CSSRule {\n    open val href: String\n    open val media: MediaList\n    open val styleSheet: CSSStyleSheet\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 [CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\n */\n\npublic external abstract class CSSGroupingRule : CSSRule {\n    open val cssRules: CSSRuleList\n    fun insertRule(rule: String, index: Int): Int\n    fun deleteRule(index: Int)\n\n    companion object {\n        val STYLE_RULE: Short\n        val CHARSET_RULE: Short\n        val IMPORT_RULE: Short\n        val

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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 * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin \n * \n public external
abstract class CSSMediaRule : CSSGroupingRule { \n    open val media: MediaList \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
[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin \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 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 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

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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: 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 textDecoration: 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

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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 getProperty(property: String): String\n  fun
getPropertyPriority(property: String): String\n  fun setProperty(property: String, value: String,
priority: String = definedExternally)\n  fun setPropertyValue(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 */\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\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 */\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
*/\npublic external abstract class MediaKeySystemAccess {\n  open val keySystem: String\n  fun

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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
*\n\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 *\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
the JavaScript [MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to
Kotlin\n *\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
*\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!

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*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface MediaKeySessionType {\n  companion object\n}\n\npublic inline val
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*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\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*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\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// 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@kotlin.internal.InlineOnly\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 * Exposes the JavaScript
[FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n */\n\npublic external open class

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FocusEvent(type:
String, eventInitDict: FocusEventInit = 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@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 * 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\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@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

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o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n  var ctrlKey: Boolean? /* = false */\n  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@kotlin.internal.InlineOnly\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/**\n * Exposes the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\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  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@kotlin.internal.InlineOnly\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\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\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:

```



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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): KeyboardEventInit {
    val o = js("{}")
    o["key"] = key
    o["code"] = code
    o["location"] = location
    o["repeat"] = repeat
    o["isComposing"] = isComposing
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/** Exposes the JavaScript [CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin
 *
 * @public external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
 *
 * UIEvent {
 *     open val data: String
 *     companion object {
 *         val NONE: Short
 *         val CAPTURING_PHASE: Short
 *         val AT_TARGET: Short
 *         val BUBBLING_PHASE: Short
 *     }
 *     @public external interface CompositionEventInit : UIEventInit {
 *         var data: String? = ""
 *         get() = definedExternally
 *         set(value) = definedExternally
 *     }
 *     @Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
 *     @kotlin.internal.InlineOnly
 *     @public inline fun CompositionEventInit(data: String? = "", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {
 *         val o = js("{}")
 *         o["data"] = data
 *         o["view"] = view
 *         o["detail"] = detail
 *         o["bubbles"] = bubbles
 *         o["cancelable"] = cancelable
 *         o["composed"] = composed
 *         return o
 *     }
 *
 * /** Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin
 *
 * @public external open class Event(type: String, eventInitDict: EventInit = definedExternally) {
 *     open val type: String
 *     open val target: EventTarget?
 *     open val currentTarget: EventTarget?
 *     open val eventPhase: Short
 *     open val bubbles: Boolean
 *     open val cancelable: Boolean
 *     open val defaultPrevented: Boolean
 *     open val composed: Boolean
 *     open val isTrusted: Boolean
 *     open val timeStamp: Number
 *     fun composedPath(): Array<EventTarget>
 *     fun stopPropagation()
 *     fun stopImmediatePropagation()
 *     fun preventDefault()
 *     fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)
 *     companion object {
 *         val NONE: Short
 *         val CAPTURING_PHASE: Short
 *         val AT_TARGET: Short
 *         val BUBBLING_PHASE: Short
 *     }
 * }
 *
 * /** Exposes the JavaScript [EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin
 *
 * @public external abstract class EventTarget {
 *     fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)
 *     fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)
 *     fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)
 *     fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)
 *     fun dispatchEvent(event: Event): Boolean
 * }
 *
 * /** Exposes the JavaScript [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin
 *
 * @public external interface EventListener {
 *     fun handleEvent(event: Event)
 * }
 *
 * * 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.
 *
 * // NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
 *
 * // See github.com/kotlin/dukat for details
 *
 * @package org.w3c.dom
 * @import kotlin.js
 * @import org.khronos.webgl
 * @import org.w3c.dom.clipboard
 * @import org.w3c.dom.css
 * @import org.w3c.dom.encryptedmedia
 * @import org.w3c.dom.events
 * @import org.w3c.dom.mediacapture
 * @import org.w3c.dom.mediasource
 * @import org.w3c.dom.pointerevents

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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: String): UnionElementOrHTMLCollection?\n}\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 *
\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 *
\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 *
\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:

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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 [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n
*\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 * Exposes the JavaScript
[HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n
*\n\npublic external abstract class HTMLHtmlElement : HTMLInputElement {\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 * Exposes the JavaScript
[HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\n
*\n\npublic external abstract class HTMLHeadElement : 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: 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
[HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n
*\n\npublic external abstract class HTMLTitleElement : HTMLInputElement {\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 * Exposes the JavaScript
[HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n
*\n\npublic external abstract class HTMLBaseElement : HTMLInputElement {\n    open var href: String\n    open var 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

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    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 * \n public
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 var referrerPolicy:
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 * \n public
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 * \n public
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 * \n public
external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers { \n    open var text: String \n

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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\n
    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

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```

external abstract class HTMLPreElement : HTMLInputElement {
    open var width: Int
    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 [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin */
@public external abstract class HTMLQuoteElement : HTMLInputElement {
    open var cite: 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 [HTMLListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLListElement) to Kotlin */
@public external abstract class HTMLListElement : HTMLInputElement {
    open var reversed: Boolean
    open var start: Int
    open var type: String
    open var compact: Boolean
    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 [HTMLListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLListElement) to Kotlin */
@public external abstract class HTMLListElement : HTMLInputElement {
    open var compact: Boolean
    open var type: 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 [HTMLListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLListElement) to Kotlin */
@public external abstract class HTMLListElement : HTMLInputElement {
    open var value: Int
    open var type: String
    companion object {
        val ELEMENT_NODE: Short
        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
[HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement)
to Kotlin\n * \npublic external abstract class HTMLDListElement : 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
[HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin\n * \npublic
external abstract class HTMLDivElement : 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
[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\n
* \npublic external abstract class HTMLAnchorElement : HTMLElement, 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
var referrerPolicy: 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\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

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    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 * \n public
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        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
[HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin \n * \n public
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 * \n public
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 * \n public external interface HTMLHyperlinkElementUtils { \n    var href: String\n    val origin: String\n
    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 public

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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 * Exposes the JavaScript
[HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement)
to Kotlin\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 * Exposes the JavaScript
[HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement)
to Kotlin\n\n */\npublic external abstract class HTMLSourceElement : HTMLElement {\n  open var src: String\n
open var type: String\n  open var srcset: 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 * Exposes the JavaScript
[HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n\n
*/\npublic external abstract class HTMLImageElement : HTMLElement, HTMLORSVGImageElement,
TexImageSource {\n  open var alt: String\n  open var src: String\n  open var srcset: 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    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
[HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin \n
*\npublic external abstract class HTMLIFrameElement : HTMLInputElement { \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
*\npublic external abstract class HTMLEmbedElement : HTMLInputElement { \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
*\npublic external abstract class HTMLObjectElement : HTMLInputElement { \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 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 [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to
Kotlin\n */\npublic 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 */\npublic
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 */\npublic 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
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING:

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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 : HTMLElement {\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 : HTMLElement {\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 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
*\npublic 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 *\npublic 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\npublic 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 *\npublic 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 *\npublic 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\npublic 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 *\npublic 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\npublic 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\npublic
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 *\npublic 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\npublic 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\npublic
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 *\npublic
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\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\n@kotlin.internal.InlineOnly\n\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 */\n\npublic external abstract class HTMLMapElement : HTMLElement {\n  open var name: String\n
open val areas: HTMLCollection\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
[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement)
to Kotlin\n */\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\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 */\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(): HTMLTableSectionElement\n  fun deleteTHead()\n  fun createTFoot():
HTMLTableSectionElement\n  fun deleteTFoot()\n  fun createTBody(): HTMLTableSectionElement\n  fun
insertRow(index: Int = definedExternally): HTMLTableRowElement\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    val DOCUMENT_POSITION_CONTAINED_BY:
```

```
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
```

```
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to Kotlin\n
```

```
*\n\npublic external abstract class HTMLTableCaptionElement : HTMLInputElement {\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
```

```
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n
```

```
*\n\npublic external abstract class HTMLTableColElement : HTMLInputElement {\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 * Exposes the JavaScript
```

```
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin\n
```

```
*\n\npublic external abstract class HTMLTableSectionElement : HTMLInputElement {\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): HTMLInputElement\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    val DOCUMENT_POSITION_CONTAINED_BY:
```

```
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
```

```
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n
```

```
*\n\npublic external abstract class HTMLTableRowElement : HTMLInputElement {\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\n/**\n * Exposes the JavaScript
[HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\n
*\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\n/**\n * Exposes the JavaScript
[HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n
*\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}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLFormElement.get(index: Int): Element? =

```



```

asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic 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 */\n\npublic
external abstract class HTMLLabelElement : HTMLInputElement {\n\n    open val form: HTMLFormElement?\n\n    open
var htmlFor: String\n\n    open val control: HTMLInputElement?\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 [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to
Kotlin\n\n */\n\npublic external abstract class HTMLInputElement : HTMLInputElement {\n\n    open var accept: String\n
open var alt: String\n\n    open var autocomplete: String\n\n    open var autofocus: Boolean\n\n    open var
defaultChecked: Boolean\n\n    open var checked: Boolean\n\n    open var dirName: String\n\n    open var disabled:
Boolean\n\n    open val form: HTMLFormElement?\n\n    open val files: FileList?\n\n    open var formAction: String\n
open var formEnctype: String\n\n    open var formMethod: String\n\n    open var formNoValidate: Boolean\n\n    open var
formTarget: String\n\n    open var height: Int\n\n    open var indeterminate: Boolean\n\n    open var inputMode: String\n
open val list: HTMLInputElement?\n\n    open var
max: String\n\n    open var maxLength: Int\n\n    open var min: String\n\n    open var minLength: Int\n\n    open var
multiple: Boolean\n\n    open var name: String\n\n    open var pattern: String\n\n    open var placeholder: String\n\n
open var readOnly: Boolean\n\n    open var required: Boolean\n\n    open var size: Int\n\n    open var src: String\n\n
open var step: String\n\n    open var type: String\n\n    open var defaultValue: String\n\n    open var value: String\n\n
open var valueAsDate: dynamic\n\n    open var valueAsNumber: Double\n\n    open var width: Int\n\n    open val willValidate:
Boolean\n\n    open val validity: ValidityState\n\n    open val validationMessage: String\n\n    open val labels: NodeList\n
open var selectionStart: Int?\n\n    open var selectionEnd: Int?\n\n    open var selectionDirection: String?\n\n    open var
align: String\n\n    open var useMap: String\n\n    fun stepUp(n: Int = definedExternally)\n\n    fun stepDown(n: Int =
definedExternally)\n\n    fun checkValidity(): Boolean\n\n    fun reportValidity():
Boolean\n\n    fun setCustomValidity(error: String)\n\n    fun select()\n\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\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 [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to
Kotlin\n\n */\n\npublic external abstract class HTMLButtonElement : HTMLInputElement {\n\n    open var autofocus:
Boolean\n\n    open var disabled: Boolean\n\n    open val form: HTMLFormElement?\n\n    open var formAction: String\n

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    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\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    npublic inline operator fun
HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    npublic 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:
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

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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 : HTMLElement,
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 : HTMLElement,
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 : HTMLElement {\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 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

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    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: 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
[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin \n * \n public
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
* \n public 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 * \n public 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
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 * \n public external
abstract class ValidityState { \n    open val valueMissing: Boolean \n    open val typeMismatch: Boolean \n    open val

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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 {\n val o = js("{}")\n o["relatedTarget"] = relatedTarget\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n**\n * Exposes the JavaScript
[HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n

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*\npublic external abstract class HTMLDialogElement
: HTMLElement {\n  open var open: Boolean\n  open var returnValue: String\n  fun show(anchor:
UnionElementOrMouseEvent = definedExternally)\n  fun showModal(anchor: UnionElementOrMouseEvent =
definedExternally)\n  fun close(returnValue: 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 [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\n
*\npublic external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {\n  open
var src: String\n  open var type: String\n  open var charset: String\n  open var async: Boolean\n  open var defer:
Boolean\n  open var crossOrigin: String?\n  open var text: String\n  open var nonce: String\n  open var event:
String\n  open var htmlFor: 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 [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement)
to Kotlin\n
*\npublic external abstract class HTMLTemplateElement : HTMLElement {\n  open val content:
DocumentFragment\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
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n
*\npublic external abstract class HTMLSlotElement : HTMLElement {\n  open var name: String\n  fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\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

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    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\n@kotlin.internal.InlineOnly \n\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\n@kotlin.internal.InlineOnly \n\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) = 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:

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String): CanvasPattern?}\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 [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\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 */\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

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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 */\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 */\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 */\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\n
*/\n\npublic external abstract class CustomElementRegistry {\n    fun define(name: String, constructor: () -> dynamic,

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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\n */\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\n */\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\n */\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\n */\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\npublic 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\npublic 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 o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return

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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("\nINVISIBLE_REFERENCE",
\nINVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\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  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) =
  definedExternally\n}\n\n@Suppress("\nINVISIBLE_REFERENCE",
\nINVISIBLE_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({})")\n  o["state"] = state\n  o["bubbles"] = bubbles\n

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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 onnoupdate: ((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 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",

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\ "INVISIBLE_MEMBER" )\n @kotlin.internal.InlineOnly\n public
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 * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n
*\n public 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\n public 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\n public 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 * Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n
*\n public 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 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) ->

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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    get() = definedExternally\n    set(value) = definedExternally\n    var
onpointercancel: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n

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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

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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 */\n\npublic
external interface NavigatorLanguage {\n  val language: String\n  val languages: Array<out String>\n}\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\n\npublic external interface NavigatorCookies {\n  val cookieEnabled: Boolean\n}\n\n\n/**\n
* Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to
Kotlin\n */\n\npublic external interface NavigatorPlugins {\n  val plugins: PluginArray\n  val mimeTypes:
MimeTypeArray\n  fun javaEnabled(): Boolean\n}\n\n\n/**\n * Exposes the JavaScript
[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\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\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun PluginArray.get(index: Int):
Plugin? = asDynamic()[index]\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic
inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]\n\n\n/**\n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */\n\npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n  override fun item(index: Int): MimeType?\n  fun
namedItem(name: String): MimeType?\n}\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun MimeTypeArray.get(index:
Int): MimeType? = asDynamic()[index]\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun MimeTypeArray.get(name:
String): MimeType? = asDynamic()[name]\n\n\n/**\n * Exposes the JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n */\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\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Plugin.get(index: Int):
MimeType? = asDynamic()[index]\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Plugin.get(name: String):
MimeType? = asDynamic()[name]\n\n\n/**\n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n */\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/**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */\n\npublic external
abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n  open val width: Int\n  open val height:
Int\n  fun close()\n}\n\n\npublic external interface ImageBitmapOptions {\n  var imageOrientation:
ImageOrientation? /* = ImageOrientation.NONE */\n  fun get() = definedExternally\n  fun set(value) =
definedExternally\n  var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n  fun get() =
definedExternally\n  fun set(value) = definedExternally\n  var colorSpaceConversion: ColorSpaceConversion? /* =
ColorSpaceConversion.DEFAULT */\n  fun get() = definedExternally\n  fun set(value) = definedExternally\n  var
resizeWidth: Int?\n  fun get() = definedExternally\n  fun set(value) = definedExternally\n  var resizeHeight: Int?\n
}

```



```

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
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

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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 */\n
public 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 */\n
public 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 */\n
public 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  }\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:

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String? = null, oldValue: String? = null, newValue: String? = null, url: String? = "\", storageArea: Storage? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {
    val o = js("{}")
    o["key"] = key
    o["oldValue"] = oldValue
    o["newValue"] = newValue
    o["url"] = url
    o["storageArea"] = storageArea
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external abstract class HTMLAppletElement :
HTMLElement {
    open var align: String
    open var alt: String
    open var archive: String
    open var code: String
    open var codeBase: String
    open var height: String
    open var hspace: Int
    open var name: String
    open var _object: String
    open var vspace: Int
    open var width: 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 [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin
 */
public external abstract class HTMLMarqueeElement : HTMLElement {
    open var behavior: String
    open var bgColor: String
    open var direction: String
    open var height: String
    open var hspace: Int
    open var loop: Int
    open var scrollAmount: Int
    open var scrollDelay: Int
    open var trueSpeed: Boolean
    open var vspace: Int
    open var width: String
    open var onbounce: ((Event) -> dynamic)?
    open var onfinish: ((Event) -> dynamic)?
    open var onstart: ((Event) -> dynamic)?
    fun start()
    fun stop()

    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 [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin
 */
public external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
    open var cols: String
    open var rows: 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
    }
}

public external abstract class HTMLFrameElement : HTMLElement {
    open var name: String
    open var scrolling: String
    open var src: String
    open var frameBorder: String
    open var longDesc: String
    open var noResize: Boolean
    open val contentDocument: Document?
    open val contentWindow: Window?
    open var marginHeight: String
    open

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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\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 * 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\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\n@kotlin.internal.InlineOnly\n\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: 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 */\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\npublic external interface CustomEventInit :
EventInit {\n    var detail: Any? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\ "INVISIBLE_MEMBER" \n @kotlin.internal.InlineOnly \n public
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 \n public 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 \n public inline fun EventListenerOptions(capture:
Boolean? = false): EventListenerOptions { \n val o = js("{}") \n o["capture"] = capture \n return
o \n } \n \n public 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 \n public 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 \n public
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
*/ \n public 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 */ \n public 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 */ \n public 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
*/ \n public 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 */ \n public
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 */ \n public
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 \n public inline operator fun NodeList.get(index: Int):
Node? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
[HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin \n */ \n public
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 \n public
inline operator fun HTMLCollection.get(index: Int): Element? =
asDynamic()[index] \n \n @Suppress("INVISIBLE_REFERENCE"),
\ "INVISIBLE_MEMBER" \n @kotlin.internal.InlineOnly \n public inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name] \n \n /** \n * Exposes the JavaScript

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[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 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

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val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\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: SVGSVGElement?\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 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:

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((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
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

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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\n    public 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     *\n     public 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\n    public 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\n    public 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     *\n     public external
    abstract class DOMImplementation {\n        fun createDocumentType(qualifiedName: String,
        publicId: String, systemId: String):
        DocumentType\n        fun createDocument(namespace: 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     *\n     public 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
    }

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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
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin \n * \n public
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 * \n public 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 * \n public external abstract
class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction { \n    open val namespaceURI: String? \n    open val prefix: String? \n    open
val localName: String \n    open val tagName: String \n    open var id: String \n    open var className: String \n    open
val classList: DOMTokenList \n    open var slot: String \n    open val attributes: NamedNodeMap \n    open val
shadowRoot: ShadowRoot? \n    open var scrollTop: Double \n    open var scrollLeft: Double \n    open val
scrollWidth: Int \n    open val scrollHeight: Int \n    open val clientTop: Int \n    open val clientLeft: Int \n    open val
clientWidth: Int \n    open val clientHeight: Int \n    open var innerHTML: String \n    open var outerHTML: String \n
    fun hasAttributes(): Boolean \n    fun getAttributeNames(): Array<String> \n    fun getAttribute(qualifiedName:
String): String? \n
        fun getAttributeNS(namespace: String?, localName: String): String? \n    fun setAttribute(qualifiedName: String,
value: String) \n    fun setAttributeNS(namespace: String?, qualifiedName: String, value: String) \n    fun
removeAttribute(qualifiedName: String) \n    fun removeAttributeNS(namespace: String?, localName: String) \n
    fun hasAttribute(qualifiedName: String): Boolean \n    fun hasAttributeNS(namespace: String?, localName: String):
Boolean \n    fun getAttributeNode(qualifiedName: String): Attr? \n    fun getAttributeNodeNS(namespace: String?,

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localName: String): Attr? \n fun setAttributeNode(attr: Attr): Attr? \n fun setAttributeNodeNS(attr: Attr): Attr? \n
fun removeAttributeNode(attr: Attr): Attr \n fun attachShadow(init: ShadowRootInit): ShadowRoot \n fun
closest(selectors: String): Element? \n fun matches(selectors: String): Boolean \n fun
webkitMatchesSelector(selectors: String): Boolean \n fun getElementsByTagName(qualifiedName: String):
HTMLCollection \n
fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection \n fun
getElementsByTagName(className: String): HTMLCollection \n fun insertAdjacentElement(where: String,
element: Element): Element? \n fun insertAdjacentText(where: String, data: String) \n fun getClientRects():
Array<DOMRect> \n fun getBoundingClientRect(): DOMRect \n fun scrollIntoView() \n fun
scrollIntoView(arg: dynamic) \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
insertAdjacentHTML(position: String, text: String) \n fun setPointerCapture(pointerId: Int) \n fun
releasePointerCapture(pointerId: Int) \n fun hasPointerCapture(pointerId: Int): Boolean \n fun requestFullscreen():
Promise<Unit> \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 public external interface
ShadowRootInit { \n var mode: ShadowRootMode? \n } \n \n @Suppress(\ "INVISIBLE_REFERENCE\ " ,
\ "INVISIBLE_MEMBER\ ") \n @kotlin.internal.InlineOnly \n public inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit
{ \n val o = js(\ "{ }") \n o[\ "mode\ "] = mode \n return o \n } \n \n /** \n * Exposes the JavaScript
[NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin \n * \n public external
abstract class NamedNodeMap : ItemArrayLike<Attr> { \n fun getNamedItemNS(namespace: String?, localName:
String): Attr? \n fun setNamedItem(attr: Attr): Attr? \n fun setNamedItemNS(attr: Attr): Attr? \n fun
removeNamedItem(qualifiedName: String): Attr \n fun removeNamedItemNS(namespace: String?, localName:
String): Attr \n override fun item(index: Int): Attr? \n fun getNamedItem(qualifiedName: String):
Attr? \n } \n \n @Suppress(\ "INVISIBLE_REFERENCE\ " ,
\ "INVISIBLE_MEMBER\ ") \n @kotlin.internal.InlineOnly \n public inline operator fun NamedNodeMap.get(index:
Int): Attr? = asDynamic()[index] \n \n @Suppress(\ "INVISIBLE_REFERENCE\ " ,
\ "INVISIBLE_MEMBER\ ") \n @kotlin.internal.InlineOnly \n public 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 public external
abstract class Attr : Node { \n open val namespaceURI: String? \n open val prefix: String? \n open val
localName: String \n open val name: String \n open var value: String \n open val ownerElement: Element? \n
open val specified: 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

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    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
[CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n *\npublic external
abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n    open var data: String\n    open
val length: Int\n    fun substringData(offset: Int, count: Int): String\n    fun appendData(data: String)\n    fun
insertData(offset: Int, data: String)\n    fun deleteData(offset: Int, count: Int)\n    fun replaceData(offset: Int, count:
Int, data: 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
[Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n *\npublic external open class Text(data:
String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n    open val wholeText: String\n    override
val assignedSlot: HTMLSlotElement?\n    override val previousElementSibling: Element?\n    override val
nextElementSibling: Element?\n    fun splitText(offset: Int): Text\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    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
[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:

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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\n *\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\n *\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\n *\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 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\n    companion 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 *\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 *\n\npublic external abstract
class TreeWalker {\n    open val root: Node\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    open

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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*\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\n@kotlin.internal.InlineOnly\n\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*\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/**\n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n\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
override var x: Double\n override var y: Double\n override var z: Double\n override var w:
Double\n}\n\n}\n\n/**\n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n\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\n
var w: Double? /* = 1.0 */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\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\n/**\n * Exposes the JavaScript
[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n\n*\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\n/**\n * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n\n*\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\n}\n\npublic external interface DOMRectInit

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{\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\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
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):

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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/**\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/**\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 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:

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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\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun TouchList.get(index: Int):
Touch? = asDynamic()[index]\n\npublic 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/**\n * Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n */\npublic 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 ondragover: ((DragEvent) -> dynamic)?\n    override var ondragstart: ((DragEvent) ->
dynamic)?\n    override var ondrop: ((Event) -> dynamic)?\n    override var onerror: ((Event) -> dynamic)?\n
override var onfocus: ((FocusEvent) -> dynamic)?\n    override var onfullscreenchange: ((FullscreenChangeEvent) ->
dynamic)?\n    override var onfullscreenerror: ((FullscreenErrorEvent) -> dynamic)?\n    override var oninput:
((Event) -> 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
onloadstart: ((Event) -> 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 onmousewheel: ((MouseEvent) -> dynamic)?\n    override var onpaste: ((Event) -> dynamic)?\n    override var
onreadystatechange: ((Event) -> dynamic)?\n    override var onscroll: ((Event) -> dynamic)?\n    override var
onsecuritypolicyviolation: ((SecurityPolicyViolationEvent) -> dynamic)?\n    override var onselect: ((Event) ->
dynamic)?\n    override var onselectionchange: ((Event) -> dynamic)?\n    override var onstalled: ((Event) ->
dynamic)?\n    override var onstorage: ((StorageEvent) -> dynamic)?\n    override var onsubmit: ((Event) ->
dynamic)?\n    override var onsuccess: ((Event) -> dynamic)?\n    override var onunload: ((Event) -> dynamic)?\n
override var onvolumechange: ((Event) -> dynamic)?\n    override var onwheel: ((MouseEvent) -> dynamic)?\n
}\n\n/**\n * Exposes the JavaScript

```

```

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 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
Audio(src: String = definedExternally) : HTMLAudioElement {
    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 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   * Exposes the JavaScript
[Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n   */\n  public external open class
Option(text: String = definedExternally, value: String
= definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) :
HTMLOptionElement {\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 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\n    public external interface
UnionElementOrHTMLCollection\n\n    public external interface UnionElementOrRadioNodeList\n\n    public external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n\n    public external interface
UnionAudioTrackOrTextTrackOrVideoTrack\n\n    public external interface UnionElementOrMouseEvent\n\n    public
external interface UnionMessagePortOrWindowProxy\n\n    public external interface MediaProvider\n\n    public

```

```

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@JsName(\"null\")\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@JsName(\"null\")\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() =
\"\".asDynamic().unsafeCast<CanPlayTypeResult>()\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@JsName(\"null\")\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@JsName(\"null\")\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
TextTrackKind.Companion.METADATA: TextTrackKind get() =
\"metadata\".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic

```



```

external interface CanvasFillRule {
    companion object
}
public inline val
CanvasFillRule.Companion.NONZERO: CanvasFillRule get() =
    "nonzero".asDynamic().unsafeCast<CanvasFillRule>()
public inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
    "evenodd".asDynamic().unsafeCast<CanvasFillRule>()
/* please, don't implement this interface!
*/
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public
external interface ImageSmoothingQuality {
    companion object
}
public inline val
ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() =
    "low".asDynamic().unsafeCast<ImageSmoothingQuality>()
public inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
    "medium".asDynamic().unsafeCast<ImageSmoothingQuality>()
public inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
    "high".asDynamic().unsafeCast<ImageSmoothingQuality>()
/* please, don't implement this interface!
*/
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public
external
interface CanvasLineCap {
    companion object
}
public inline val CanvasLineCap.Companion.BUTT:
CanvasLineCap get() = "butt".asDynamic().unsafeCast<CanvasLineCap>()
public inline val
CanvasLineCap.Companion.ROUND: CanvasLineCap get() =
    "round".asDynamic().unsafeCast<CanvasLineCap>()
public inline val CanvasLineCap.Companion.SQUARE:
CanvasLineCap get() = "square".asDynamic().unsafeCast<CanvasLineCap>()
/* please, don't implement this
interface!
*/
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public
external
interface CanvasLineJoin {
    companion object
}
public inline val
CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
    "round".asDynamic().unsafeCast<CanvasLineJoin>()
public inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = "bevel".asDynamic().unsafeCast<CanvasLineJoin>()
public inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
    "miter".asDynamic().unsafeCast<CanvasLineJoin>()
/* please, don't implement this interface!
*/
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public
external
interface CanvasTextAlign {
    companion object
}
public inline val CanvasTextAlign.Companion.START:
CanvasTextAlign get() = "start".asDynamic().unsafeCast<CanvasTextAlign>()
public inline val
CanvasTextAlign.Companion.END:
CanvasTextAlign get() = "end".asDynamic().unsafeCast<CanvasTextAlign>()
public inline val
CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() =
    "left".asDynamic().unsafeCast<CanvasTextAlign>()
public inline val CanvasTextAlign.Companion.RIGHT:
CanvasTextAlign get() = "right".asDynamic().unsafeCast<CanvasTextAlign>()
public inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
    "center".asDynamic().unsafeCast<CanvasTextAlign>()
/* please, don't implement this interface!
*/
@JsName("null")
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public
external
interface CanvasTextBaseline {
    companion object
}
public inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = "top".asDynamic().unsafeCast<CanvasTextBaseline>()
public inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
    "hanging".asDynamic().unsafeCast<CanvasTextBaseline>()
public inline val
CanvasTextBaseline.Companion.MIDDLE:
CanvasTextBaseline get() = "middle".asDynamic().unsafeCast<CanvasTextBaseline>()
public inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
    "alphabetic".asDynamic().unsafeCast<CanvasTextBaseline>()
public inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
    "ideographic".asDynamic().unsafeCast<CanvasTextBaseline>()
public inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =

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\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface PremultiplyAlpha {\n  companion object\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface ResizeQuality {\n  companion object\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:
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@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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface WorkerType {\n  companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC:

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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@JsName(`null`)\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\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@JsName(`null`)\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\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@JsName(`null`)\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\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@JsName(`null`)\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\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 * 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.fetch\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.files.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n *\n\npublic external open class
Headers(init: dynamic = definedExternally) {\n  fun append(name: String, value: String)\n  fun delete(name:
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 *\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 *\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:

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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@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  companion 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",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ResponseInit(status: Short? = 200,
statusText: String? = "OK", headers: dynamic = undefined): ResponseInit
{\n  val o = js("{}")\n  o["status"] = status\n  o["statusText"] = statusText\n  o["headers"] = headers\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 RequestType {\n  companion object\n}\n\npublic inline val RequestType.Companion.EMPTY:
RequestType get() = ""\n\npublic inline val
RequestType.Companion.AUDIO: RequestType get() =
"audio"\n\npublic inline val RequestType.Companion.FONT:
RequestType get() = "font"\n\npublic inline val

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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\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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

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interface! *\/n@JsName("null")n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")npublic
external interface RequestCredentials {n  companion objectn}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 objectn}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 objectn}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 objectn}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\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.mediacapture\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/* Exposes
the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n\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

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getTrackById(trackId: String): MediaStreamTrack?
fun addTrack(track: MediaStreamTrack)
fun removeTrack(track: MediaStreamTrack)
fun clone(): MediaStreamTrack
}

/** Exposes the JavaScript [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin */
public external abstract class MediaStreamTrack : EventTarget {
    open val kind: String
    open val id: String
    open val label: String
    open var enabled: Boolean
    open val muted: Boolean
    open var onmute: ((Event) -> dynamic)?
    open var onunmute: ((Event) -> dynamic)?
    open val readyState: MediaStreamTrackState
    open var onended: ((Event) -> dynamic)?
    open var onoverconstrained: ((Event) -> dynamic)?
    fun clone(): MediaStreamTrack
    fun stop()
    fun getCapabilities(): MediaTrackCapabilities
    fun getConstraints(): MediaTrackConstraints
    fun getSettings(): MediaTrackSettings
    fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>
}

/** Exposes the JavaScript [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin */
public external interface MediaTrackSupportedConstraints {
    var width: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var height: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var aspectRatio: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var frameRate: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var facingMode: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var resizeMode: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var volume: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var sampleRate: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var sampleSize: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var echoCancellation: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var autoGainControl: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var noiseSuppression: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var latency: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var channelCount: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var deviceId: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
    var groupId: Boolean? /* = true */
    fun get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public 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?
    fun get() = definedExternally
    set(value) = definedExternally
    var height: ULongRange?
    fun get() = definedExternally
    set(value) = definedExternally
    var aspectRatio: DoubleRange?
    fun get() = definedExternally
    set(value) = definedExternally
    var frameRate: DoubleRange?
    fun get() = definedExternally
    set(value) = definedExternally
    var facingMode: DoubleRange?
    fun get() = definedExternally
    set(value) = definedExternally
}

```

```

Array<String>? \n    get() = definedExternally \n    set(value) = definedExternally \n    var resizeMode:
Array<String>? \n    get() = definedExternally \n    set(value) = definedExternally \n    var volume:
DoubleRange? \n    get() = definedExternally \n    set(value) = definedExternally \n    var sampleRate:
ULongRange? \n    get() = definedExternally \n    set(value) = definedExternally \n    var sampleSize:
ULongRange? \n    get() = definedExternally \n    set(value) = definedExternally \n    var echoCancellation:
Array<Boolean>? \n    get() = definedExternally \n    set(value) = definedExternally \n    var autoGainControl:
Array<Boolean>? \n
    get() = definedExternally \n    set(value) = definedExternally \n    var noiseSuppression: Array<Boolean>? \n
    get() = definedExternally \n    set(value) = definedExternally \n    var latency: DoubleRange? \n    get() =
definedExternally \n    set(value) = definedExternally \n    var channelCount: ULongRange? \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 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 { \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
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin \n
*/ \n public external interface MediaTrackConstraints : MediaTrackConstraintSet { \n    var advanced:
Array<MediaTrackConstraintSet>? \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @Suppress(\ "INVISIBLE_REFERENCE" ,
\ "INVISIBLE_MEMBER" ) \n @kotlin.internal.InlineOnly \n 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 { \n    val o = js(\ "{ }" ) \n
o[\ "advanced" ] = advanced \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 public external interface
MediaTrackConstraintSet { \n    var width: dynamic \n    get() = definedExternally \n    set(value) =
definedExternally \n    var height: dynamic \n    get() = definedExternally \n    set(value) = definedExternally \n
var aspectRatio:

```



```

dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var frameRate: dynamic\n
get() = definedExternally\n    set(value) = definedExternally\n    var facingMode: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var resizeMode: dynamic\n    get() =
definedExternally\n    set(value) = definedExternally\n    var volume: dynamic\n    get() = definedExternally\n
    set(value) = definedExternally\n    var sampleRate: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var sampleSize: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var echoCancellation: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var autoGainControl: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var noiseSuppression: dynamic\n    get() = definedExternally\n
    set(value) = definedExternally\n    var latency: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var channelCount: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var deviceId: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
    var groupId: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic 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 {\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
[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n\n *^n\npublic
external interface MediaTrackSettings {\n    var width: Int?\n        get() = definedExternally\n
    set(value) = definedExternally\n    var height: Int?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var aspectRatio: Double?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var frameRate: Double?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var facingMode: String?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var resizeMode: String?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var volume: Double?\n        get() = definedExternally\n        set(value) = definedExternally\n
    var sampleRate: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    var sampleSize:
Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    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\n@kotlin.internal.InlineOnly\n\npublic 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 * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n
*/\npublic 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  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  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  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 * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n
*/\npublic 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
*/\npublic 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\n  public 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  public external interface ConstrainingPattern {\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
```

```
}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n
```

```
}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n
```

```

val o = js("{}")\n return o\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\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\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

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[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\n\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\")\n\npublic
external interface ReadyState {\n  companion object\n}\n\n\npublic inline val ReadyState.Companion.CLOSED:
ReadyState get() = \"closed\".asDynamic().unsafeCast<ReadyState>()\n\n\npublic inline val
ReadyState.Companion.OPEN: ReadyState get() = \"open\".asDynamic().unsafeCast<ReadyState>()\n\n\npublic
inline val ReadyState.Companion.ENDED: ReadyState get() =
\"ended\".asDynamic().unsafeCast<ReadyState>()\n\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface EndOfStreamError {\n  companion object\n}\n\n\npublic inline val
EndOfStreamError.Companion.NETWORK: EndOfStreamError get() =
\"network\".asDynamic().unsafeCast<EndOfStreamError>()\n\n\npublic inline val
EndOfStreamError.Companion.DECODE: EndOfStreamError get() =
\"decode\".asDynamic().unsafeCast<EndOfStreamError>()\n\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface AppendMode {\n  companion object\n}\n\n\npublic inline val
AppendMode.Companion.SEGMENTS: AppendMode get() =
\"segments\".asDynamic().unsafeCast<AppendMode>()\n\n\npublic inline val
AppendMode.Companion.SEQUENCE: AppendMode get() =
\"sequence\".asDynamic().unsafeCast<AppendMode>(),\"/>\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// 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\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\n\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} * Exposes the JavaScript

```

```

[PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\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}"/ * 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} * Exposes the JavaScript

```

```

[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n
open val dataset: DOMStringMap\n  open val ownerSVGElement: SVGSVGElement?\n  open val
viewportElement: SVGElement?\n  open var tabIndex: Int\n  fun focus()\n  fun blur()\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
SVGBoundingBoxOptions {\n  var fill: Boolean? /* = true */\n  get() = definedExternally\n  set(value) =

```

```

definedExternally\n    var stroke: Boolean? /* = false */\n        get()
= definedExternally\n        set(value) = definedExternally\n    var markers: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var clipped: Boolean? /* = false */\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill:
Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false):
SVGBoundingBoxOptions {\n    val o = js(\"({})\")\n    o[\"fill\"] = fill\n    o[\"stroke\"] = stroke\n    o[\"markers\"]
= markers\n    o[\"clipped\"] = clipped\n    return o\n}\n\n/**\n * Exposes the JavaScript
[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*/\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n    open val transform:
SVGAnimatedTransformList\n    fun getBBox(options:
SVGBoundingBoxOptions = definedExternally): DOMRect\n    fun getCTM(): DOMMatrix?\n    fun
getScreenCTM(): DOMMatrix?\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
[SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement)
to Kotlin\n */\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n    open val
pathLength: SVGAnimatedNumber\n    fun isPointInFill(point: DOMPoint): Boolean\n    fun isPointInStroke(point:
DOMPoint): Boolean\n    fun getTotalLength(): Float\n    fun getPointAtLength(distance: Float): 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\n/**\n * Exposes the JavaScript
[SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n */\npublic external
abstract class SVGNumber {\n    open var value: Float\n}\n\n/**\n * 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  public 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(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n  @kotlin.internal.InlineOnly\n  public inline operator fun SVGNameList.get(index: Int):
dynamic = asDynamic()[index]\n\n  @Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n  @kotlin.internal.InlineOnly\n  public 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   */\n  public 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(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n  @kotlin.internal.InlineOnly\n  public inline operator fun SVGNumberList.get(index:
Int): SVGNumber? = asDynamic()[index]\n\n  @Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n  @kotlin.internal.InlineOnly\n  public 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   */\n  public 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(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n  @kotlin.internal.InlineOnly\n  public inline operator fun SVGLengthList.get(index:
Int): SVGLength? = asDynamic()[index]\n\n  @Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n  @kotlin.internal.InlineOnly\n  public 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   */\n  public external
abstract class SVGAnimatedBoolean {\n  open var baseVal: Boolean\n  open val animVal:
Boolean\n}\n\n  /**\n   * Exposes the JavaScript
[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to
Kotlin\n   */\n  public 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   */\n  public 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   */\n  public external
abstract class SVGAnimatedNumber {\n  open var baseVal: Float\n  open val animVal:
Float\n}\n\n  /**\n   * Exposes the JavaScript

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[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
`*\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 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

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    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 * \n public
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
* \n public 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 * \n public
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 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 * \n public external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox { \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

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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
*\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\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n    open val sourceAnimation: dynamic\n}\n\n\n/**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n
*\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
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\npublic external interface
GetSVGDocument {\n    fun getSVGDocument():
Document\n}\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

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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 [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\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
*\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\npublic inline operator fun SVGTransformList.get(index:
Int): SVGTransform? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\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
*\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
*\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_XMINYMIN:
Short\n        val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n        val
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

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external abstract class SVGPathElement : SVGGeometryElement {
    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 [SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin */
@public
external abstract class SVGRectElement : SVGGeometryElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength

    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 [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin */
@public
external abstract class SVGCircleElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength

    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 [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin */
@public
external abstract class SVGEllipseElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength

    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
    }
}

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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? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\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
*/\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

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    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
*/\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
*/\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 */\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:
SVGAnimatedNumberList\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

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n */\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\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 [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n */\npublic external abstract class SVGTSpanElement : SVGTextPositioningElement {\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 [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n */\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n open val startOffset: SVGAnimatedLength\n open val method: SVGAnimatedEnumeration\n open val spacing: SVGAnimatedEnumeration\n\n companion object {\n val TEXTPATH_METHODTYPE_UNKNOWN: Short\n val TEXTPATH_METHODTYPE_ALIGN: Short\n val TEXTPATH_METHODTYPE_STRETCH: Short\n val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n val TEXTPATH_SPACINGTYPE_AUTO: Short\n val TEXTPATH_SPACINGTYPE_EXACT: Short\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 [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n */\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,

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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 */\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
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 */\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

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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 [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to
Kotlin \n * \n public 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 * \n public 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
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 * \n public 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:

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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    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\npublic
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:

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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 */\npublic 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\npublic
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\npublic external abstract class
SVGHatchpathElement : 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
[SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\npublic
external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n\n    companion

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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
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }

/** Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin
*/
public external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {
    open var type: String
    open var crossOrigin: 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
    }

    DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }

/** Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin
*/
public external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {
    open val target: SVGAnimatedString
    open val download: SVGAnimatedString
    open val rel: SVGAnimatedString
    open val relList: SVGAnimatedString
    open val hreflang: SVGAnimatedString
    open val type: SVGAnimatedString

    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 [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin
*/
public external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {
    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: 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 }

    }

}

"/

* Copyright 2010-2021

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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) : MediaPlayer, 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\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\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\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\n    companion object {\n        val EMPTY: Short\n        val LOADING: Short\n        val DONE:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n *\npublic external
open class FileReaderSync {\n    fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n    fun readAsBinaryString(blob:
Blob): String\n    fun readAsText(blob: Blob, label: String = definedExternally): String\n    fun
readAsDataURL(blob: Blob): String\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.notifications\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.events.*\nimport
org.w3c.workers.*\n\n/**\n * Exposes the JavaScript
[Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\n *\npublic external open
class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\n    var onclick:
((MouseEvent) -> dynamic)?\n    var onerror: ((Event) -> dynamic)?\n    open val title: String\n    open val dir:
NotificationDirection\n    open val lang: String\n    open val body: String\n    open val tag: String\n    open val

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image: String\n  open val icon: String\n  open val badge: String\n
  open val sound: String\n  open val vibrate: Array<out Int>\n  open val timestamp: Number\n  open val renotify:
Boolean\n  open val silent: Boolean\n  open val noscreen: Boolean\n  open val requireInteraction: Boolean\n
open val sticky: Boolean\n  open val data: Any?\n  open val actions: Array<out NotificationAction>\n  fun
close()\n\n  companion object {\n    val permission: NotificationPermission\n    val maxActions: Int\n    fun
requestPermission(deprecatedCallback: (NotificationPermission) -> Unit) = definedExternally\n
Promise<NotificationPermission>\n  }\n\n\npublic external interface NotificationOptions {\n  var dir:
NotificationDirection? /* = NotificationDirection.AUTO */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var lang: String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var body: String? /* = "" */\n    get() = definedExternally\n    set(value)
= definedExternally\n  var tag: String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var image: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
var icon: String?\n    get() = definedExternally\n    set(value) = definedExternally\n  var badge: String?\n
get() = definedExternally\n    set(value) = definedExternally\n  var sound: String?\n    get() =
definedExternally\n    set(value) = definedExternally\n  var vibrate: dynamic\n    get() = definedExternally\n
set(value) = definedExternally\n  var timestamp: Number?\n    get() = definedExternally\n    set(value) =
definedExternally\n  var renotify: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var silent: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n  var noscreen: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n  var requireInteraction: Boolean? /* =
false */\n    get() = definedExternally\n    set(value) = definedExternally\n  var sticky: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n  var data: Any? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n  var actions: Array<NotificationAction>? /* = arrayOf()
*/\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic 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 {\n
val o = js(\"({})\")\n  o[\"dir\"] = dir\n  o[\"lang\"] = lang\n  o[\"body\"] = body\n  o[\"tag\"] = tag\n
o[\"image\"] = image\n  o[\"icon\"] = icon\n  o[\"badge\"] = badge\n  o[\"sound\"] = sound\n  o[\"vibrate\"] =
vibrate\n  o[\"timestamp\"] = timestamp\n  o[\"renotify\"] = renotify\n  o[\"silent\"] = silent\n  o[\"noscreen\"] =
noscreen\n  o[\"requireInteraction\"] = requireInteraction\n  o[\"sticky\"] = sticky\n  o[\"data\"] = data\n
o[\"actions\"] = actions\n  return o\n}\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\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\n\npublic external interface GetNotificationOptions {\n  var
tag: String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\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**\n * Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n
*\n\n\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent {\n  open val notification: Notification\n

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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\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\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\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.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 *\npublic external
abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n    open val scriptURL:
String\n    open val state: ServiceWorkerState\n    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 *\npublic 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
*\npublic 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

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getRegistration(clientURL: String = definedExternally): Promise<Any?>\n fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n fun startMessages()\n\npublic 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\npublic 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 */\npublic 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\npublic 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\npublic 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 */\npublic 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
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:

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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() = 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

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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 = 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

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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 \n public 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 * \n public 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 \n public 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 \n public external interface UnionMessagePortOrServiceWorker \n \n public external interface
UnionClientOrMessagePortOrServiceWorker \n \n /* please, don't implement this interface!
*\n @JsName(\ "null\ ") \n @Suppress(\ "NESTED_CLASS_IN_EXTERNAL_INTERFACE\ ") \n public external
interface ServiceWorkerState { \n    companion object \n} \n \n public inline val
ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() =
\ "installing\ ".asDynamic().unsafeCast<ServiceWorkerState>() \n \n public inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
\ "installed\ ".asDynamic().unsafeCast<ServiceWorkerState>() \n \n public inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
\ "activating\ ".asDynamic().unsafeCast<ServiceWorkerState>() \n \n public inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
\ "activated\ ".asDynamic().unsafeCast<ServiceWorkerState>() \n \n public
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 public external
interface FrameType { \n    companion object \n} \n \n public inline val FrameType.Companion.AUXILIARY:
FrameType get() = \ "auxiliary\ ".asDynamic().unsafeCast<FrameType>() \n \n public inline val
FrameType.Companion.TOP_LEVEL: FrameType get() = \ "top-
level\ ".asDynamic().unsafeCast<FrameType>() \n \n public inline val FrameType.Companion.NESTED: FrameType
get() = \ "nested\ ".asDynamic().unsafeCast<FrameType>() \n \n public inline val FrameType.Companion.NONE:
FrameType get() = \ "none\ ".asDynamic().unsafeCast<FrameType>() \n \n /* please, don't implement this interface!
*\n @JsName(\ "null\ ") \n @Suppress(\ "NESTED_CLASS_IN_EXTERNAL_INTERFACE\ ") \n public external
interface ClientType { \n    companion object \n} \n \n public
inline val ClientType.Companion.WINDOW: ClientType get() =
\ "window\ ".asDynamic().unsafeCast<ClientType>() \n \n public inline val ClientType.Companion.WORKER:
ClientType get() = \ "worker\ ".asDynamic().unsafeCast<ClientType>() \n \n public inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
\ "sharedworker\ ".asDynamic().unsafeCast<ClientType>() \n \n public inline val ClientType.Companion.ALL:
ClientType get() = \ "all\ ".asDynamic().unsafeCast<ClientType>() \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 \n package org.w3c.xhr \n \n import kotlin.js.* \n import
org.khronos.webgl.* \n import org.w3c.dom.* \n import org.w3c.dom.events.* \n import org.w3c.files.* \n \n /** \n *
Exposes the JavaScript

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[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget)
to Kotlin\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\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 *\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 * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\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 * Exposes the JavaScript
[ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\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\npublic external interface ProgressEventInit : EventInit {\n  var
lengthComputable:
Boolean? /* = false */\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() =

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\"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/**\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 * @DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.6\")\n * @Deprecated(\"Please use RequiresOptIn instead.\")\n * \n * public 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 *      * 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 *      * 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 *      * @Retention(SOURCE)\n *      * @SinceKotlin(\"1.2\")\n *      * @RequireKotlin(\"1.2.50\",
versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n *      * @DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.6\")\n *      * @Deprecated(\"Please use OptIn instead.\", ReplaceWith(\"OptIn(*markerClass)\",
\"kotlin.OptIn\"))\n *      * \n *      * public annotation class UseExperimental(\n *          vararg val markerClass:
KClass<out
Annotation>)\n *      * \n *      * @Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)\n *      * @Retention(BINARY)\n *      * \n *      * internal
annotation class WasExperimental(\n *          vararg val markerClass: KClass<out Annotation>)\n *      * \n *      *
\", \"package
kotlin\n *      * \n *      * import 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 *      * \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
`-opt-in=kotlin.ExperimentalStdlibApi`.\n
*      * \n *      * @RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n *      * @Retention(AnnotationRetention.BINARY)\n *      * @Target(\n *          CLASS,\n

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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\n@MustBeDocumented\n@SinceKotlin("1.3")\n\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.*\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 * 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 * 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 * 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 * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n */\n\n@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@ExperimentalTypeInference\n\npublic annotation class BuilderInference\n\n\n/**\n * Enables overload selection based on the type of the value returned from lambda argument.\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 * Example:\n * ```\n * @OverloadResolutionByLambdaReturnType\n * fun create(intProducer: () -> Int): Int\n * fun create(doubleProducer: () -> Double): Double\n * val newValue = create { 3.14 }\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 * 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 * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n */\n\n@Target(FUNCTION)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.4")\n@ExperimentalTypeInference\n\npublic annotation class OverloadResolutionByLambdaReturnType\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.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n\n/**\n * The experimental multiplatform support API marker.\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 `-opt-in=kotlin.ExperimentalMultiplatform`.\n */\n\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 TYPEALIAS\n)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n\npublic annotation class ExperimentalMultiplatform\n\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

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*\n @Target(ANNOTATION_CLASS)\n @Retention(AnnotationRetention.BINARY)\n @ExperimentalMultiplatform\n @RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n public\n annotation class OptionalExpectation\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming\n Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file. \n */\n\n package kotlin\n\n import\n kotlin.annotation.AnnotationRetention.BINARY\n import kotlin.annotation.AnnotationRetention.SOURCE\n import\n kotlin.annotation.AnnotationTarget.*\n import kotlin.internal.RequireKotlin\n import\n kotlin.internal.RequireKotlinVersionKind\n import kotlin.reflect.KClass\n\n /**\n * Signals that the annotated\n 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\n being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement. \n\n * \n * This class requires opt-in itself and can only be used with the compiler argument ` -opt-\n in=kotlin.RequiresOptIn `.\n * \n * @property message message to be reported on usages of API without an explicit\n opt-in, or empty string for the default message. \n * The default message is: ` "This declaration is\n experimental and its usage should be marked with 'Marker' ` \n * or ` '@OptIn(Marker::class)' `, where\n `Marker` is the opt-in requirement marker. \n * @property level specifies how usages of API without an explicit opt-\n in are reported in code. \n\n */\n @Target(ANNOTATION_CLASS)\n @Retention(BINARY)\n @SinceKotlin("1.3")\n @RequireKotlin("1.3.70\n", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n public annotation class RequiresOptIn(\n val message: String = "", \n val level: Level = Level.ERROR)\n {\n /**\n * Severity of the diagnostic that\n should be reported on usages which did not explicitly opt into\n * the API either by using [OptIn] or by being\n annotated with the corresponding marker annotation. \n * \n * public enum class Level {\n /** Specifies that a\n warning should be reported on incorrect usages of this API. \n * \n * WARNING, \n\n /** Specifies that an error\n should be reported on incorrect usages of this API. \n * \n * ERROR, \n } \n\n /**\n * Allows to use the API\n denoted by the given markers in the annotated file, declaration, or expression. \n * \n * If a declaration is annotated with\n [OptIn], its usages are **not** required to opt in to that API. \n * \n * This class requires opt-in itself and can only be\n used with the compiler argument ` -opt-in=kotlin.RequiresOptIn `.\n * \n * \n @Target(\n CLASS, PROPERTY,\n LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,\n PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,\n TYPEALIAS)\n @Retention(SOURCE)\n @SinceKotlin("1.3")\n @RequireKotlin("1.3.70", versionKind =\n RequireKotlinVersionKind.COMPILER_VERSION)\n public annotation class OptIn(\n vararg val markerClass:\n KClass<out Annotation>)\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language\n contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file. \n */\n\n package kotlin.collections\n\n import kotlin.js.JsName\n\n /**\n * Provides a skeletal\n implementation of the read-only [Collection] interface. \n * \n * @param E the type of elements contained in the\n collection. The collection is covariant in its element type. \n * \n * \n @SinceKotlin("1.1")\n public abstract class\n AbstractCollection<out E> protected constructor(): Collection<E> {\n abstract override val size: Int\n abstract\n override fun iterator(): Iterator<E>\n\n override fun contains(element:\n @UnsafeVariance E): Boolean = any { it == element }\n\n override fun containsAll(elements:\n Collection<@UnsafeVariance E>): Boolean =\n elements.all { contains(it) } // use when js will support bound\n refs: elements.all(this::contains)\n\n override fun isEmpty(): Boolean = size == 0\n\n override fun toString():\n 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 * \n @JsName("toArray")\n protected open fun toArray(): Array<Any?> = copyToArrayImpl(this)\n\n /**\n * \n * Fills the provided [array] or creates new array of the same type\n * and fills it with the elements of this

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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
*/\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 */\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     * 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\n    abstract protected fun computeNext(): Unit\n\n    /**\n     * Sets the next value in the
iteration, called from the [computeNext] function\n     */\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\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\n\n\n * Based on GWT AbstractList\n * Copyright 2007 Google
Inc.\n\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [List]
interface.\n * This class is intended to help implementing read-only lists so it doesn't support concurrent
modification tracking.\n * @param E the type of elements contained in the list. The list is covariant in its
element type.\n */\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\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\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\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is List<*>) return false\n        return orderedEquals(this, other)\n
    }\n\n    /**\n     * Returns the hash code value for this list.\n     */\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     */\n\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\n    private open inner class ListIteratorImpl(index: Int) : IteratorImpl(), ListIterator<E> {\n        init {\n
checkPositionIndex(index,

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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())\n            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("\nindex: $index, size: $size")\n            }\n        }\n\n        internal fun checkPositionIndex(index: Int, size: Int) {\n            if (index < 0 || index > size) {\n                throw IndexOutOfBoundsException("\nindex: $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("\nfromIndex: $fromIndex, toIndex: $toIndex, size: $size")\n            if (fromIndex > toIndex) {\n                throw IllegalArgumentException("\nfromIndex: $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("\nstartIndex: $startIndex, endIndex: $endIndex, size: $size")\n            }\n            if (startIndex > endIndex) {\n                throw IllegalArgumentException("\nstartIndex: $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            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 * 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 AbstractMap\n * Copyright 2007 Google Inc.\n */\npackage kotlin.collections\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")\npublic 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    internal fun containsEntry(entry: Map.Entry<*, *>): Boolean {\n        // since entry comes from @UnsafeVariance parameters it can be virtually anything\n        if (entry !is Map.Entry<*, *>) return false\n        val key = entry.key\n        val value = entry.value\n        val ourValue = get(key)\n        if (value != ourValue) {\n            return false\n        }\n        // Perhaps it was null and we don't contain the key?\n        if (ourValue == null && !containsKey(key)) {\n            return false\n        }\n        return true\n    }\n\n    /**\n     * Compares this map with other instance with the ordered structural equality.\n     * @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.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is Map<*, *>) return false\n        if (size != other.size) return false\n        return other.entries.all { containsEntry(it) }\n    }\n\n    override operator fun get(key: K): V? = implFindEntry(key)?.value\n\n    /**\n     * Returns the hash code value for this map.\n     * It is the same as the hashCode of [entries] set.\n     */\n    override fun hashCode(): Int = entries.hashCode()\n\n    override fun isEmpty(): Boolean = size == 0\n\n    override val size: Int get() = entries.size\n\n    /**\n     * Returns a read-only [Set] of all keys in this map.\n     * Accessing this property first time creates a keys view from [entries].\n     * All subsequent accesses just return the created instance.\n     */\n    override val keys: Set<K> get() {\n        if (_keys == null) {\n            _keys = object : AbstractSet<K>() {\n                override operator fun contains(element: K): Boolean = containsKey(element)\n                override operator fun iterator(): Iterator<K> {\n                    val entryIterator = entries.iterator()\n                    return object : Iterator<K> {\n                        override fun

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hasNext(): Boolean = entryIterator.hasNext()\n
    override fun next(): K = entryIterator.next().key\n
    }\n    }\n    override val size: Int get() = this@AbstractMap.size\n    }\n
}\n    return _keys!!\n    }\n    @kotlin.jvm.Volatile\n    private var _keys: Set<K>? = null\n\n\noverride fun toString(): String = entries.joinToString(", ", "{", "}") { toString(it)
}\n\n    private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + "=" +
toString(entry.value)\n\n    private fun toString(o: Any?): String = if (o === this) "(this Map)" else o.toString()\n\n
/**\n * Returns a read-only [Collection] of all values in this map.\n * \n * Accessing this property first time
creates a values view from [entries].\n * All subsequent accesses just return the created instance.\n */\n
override val values: Collection<V>\n    get() {\n        if (_values == null) {\n            _values = object :
AbstractCollection<V>()\n                override operator fun contains(element: @UnsafeVariance V): Boolean =
containsValue(element)\n            override operator fun iterator(): Iterator<V> {\n                val
entryIterator = entries.iterator()\n                return object : Iterator<V> {\n                    override fun
hasNext(): Boolean = entryIterator.hasNext()\n
                        override fun next(): V = entryIterator.next().value\n                    }\n                }\n            }\n
override val size: Int get() = this@AbstractMap.size\n    }\n    }\n    return _values!!\n    }\n\n
@kotlin.jvm.Volatile\n    private var _values: Collection<V>? = null\n\n    private fun implFindEntry(key: K):
Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n    internal companion object {\n        internal fun
entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }\n
        internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { "$key=$value" }\n        internal fun
entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n            if (other !is Map.Entry<*, *>) return false\n
            return e.key == other.key && e.value == other.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\npackage kotlin.collections\n\n/**\n * Provides a skeletal
implementation of the read-only [Set] interface.\n * \n * This class is intended to help implementing read-only sets so
it doesn't support concurrent modification tracking.\n * \n * @param E the type of elements contained in the set. The
set is covariant in its element type.\n */\n\n@SinceKotlin("1.1")\npublic abstract class AbstractSet<out E> protected
constructor() : AbstractCollection<E>(), Set<E> {\n\n    /**\n * Compares this set with other set instance with the
unordered structural equality.\n * \n * @return true, if [other] instance is a [Set] of the same size, all elements of
which are contained in this set.\n */\n    override fun equals(other: Any?): Boolean {\n        if (other === this)
return true\n        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        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 * \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:

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$initialCapacity)\n    }\n }\n /**\n  * Constructs an empty deque.\n  */\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     * If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.\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        }\n        return\n    }\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 == elementData.lastIndex) 0 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 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        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        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        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        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

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element, or returns `null` if this deque is empty.\n    */\n    public fun removeLastOrNull(): E? = if (isEmpty()) null
else removeLast()\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        if (index == size) {\n            addLast(element)\n
return\n        } else if (index == 0) {\n            addFirst(element)\n            return\n        }\n        ensureCapacity(size
+ 1)\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        // At this point
the insertion index is not equal to head or tail.\n        // Also the circular array can store at least one more element.\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        // 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        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\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\n            elementData[decrementedInternalIndex] = element\n
            head = decrementedHead\n        } else {\n            // closer to the last element -> shift succeeding elements\n
            val tail = internalIndex(size)\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] = 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\n    private 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\n    public 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\n    public 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\n            var shiftedHead = head - elementsSize\n\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

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        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                }\n                } else { // head > tail,\n                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                elementData.copyInto(elementData, shiftedInternalIndex
- elementData.size,
internalIndex, elementData.size)\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                return true\n                }\n                public override fun
get(index: Int): E {\n                AbstractList.checkElementIndex(index, size)\n                return
internalGet(internalIndex(index))\n                }\n                public 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                public override fun contains(element: E): Boolean = indexOf(element) != -1\n                public override
fun indexOf(element: E): Int {\n                val tail = internalIndex(size)\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                return -1\n                }\n                public override fun
lastIndexOf(element: E): Int {\n                val tail = internalIndex(size)\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                return -1\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                public override fun removeAt(index: Int): E {\n                AbstractList.checkElementIndex(index, size)\n                if (index == lastIndex) {\n                return removeLast()\n                }
else if (index == 0) {\n                return removeFirst()\n                }\n                val internalIndex = internalIndex(index)\n                val element = internalGet(internalIndex)\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 { // head > tail, internalIndex < head\n                elementData.copyInto(elementData, 1, 0, internalIndex)\n                elementData[0] = elementData[elementData.size

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- 1]\n        elementData.copyInto(elementData, head + 1, head, elementData.size - 1)\n        }\n\n    elementData[head] = null\n        head = incremented(head)\n    } else {\n        // closer to the last element ->\n    shift succeeding elements\n        val internalLastIndex = internalIndex(lastIndex)\n        if (internalIndex <=\n    internalLastIndex) {\n        elementData.copyInto(elementData, internalIndex, internalIndex + 1,\n    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,\n    0, 1, internalLastIndex + 1)\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 {\n    !elements.contains(it) }\n\n    public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace {\n    elements.contains(it) }\n\n    private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n        if\n    (this.isEmpty() || elementData.isEmpty())\n        return false\n\n        val tail = internalIndex(size)\n        var\n    newTail = head\n        var modified = false\n\n        if (head < tail) {\n            for (index in head until tail) {\n                val element = elementData[index]\n                @Suppress(\"UNCHECKED_CAST\")\n                if\n    (predicate(element as E))\n                elementData[newTail++] = element\n                else\n                modified = true\n            }\n\n            elementData.fill(null, newTail, tail)\n        } else {\n            for (index in head until elementData.size) {\n                val element = elementData[index]\n                elementData[index] = null\n                @Suppress(\"UNCHECKED_CAST\")\n                if (predicate(element as E))\n                elementData[newTail++] = element\n                else\n                modified = true\n            }\n\n            newTail =\n    positiveMod(newTail)\n            for (index in 0 until tail) {\n                val element = elementData[index]\n                elementData[index] = null\n                @Suppress(\"UNCHECKED_CAST\")\n                if (predicate(element as\n    E)) {\n                elementData[newTail] = element\n                newTail = incremented(newTail)\n            }\n            else {\n                modified = true\n            }\n        }\n\n        if (modified)\n            size =\n    negativeMod(newTail\n    - head)\n\n        return modified\n    }\n\n    public override fun clear() {\n        val tail = internalIndex(size)\n        if\n    (head < tail) {\n        elementData.fill(null, head, tail)\n        } else if (isEmpty()) {\n    elementData.fill(null, head, elementData.size)\n        elementData.fill(null, 0, tail)\n        }\n        head = 0\n    }\n\n    size = 0\n    }\n\n    @Suppress(\"NOTHING_TO_OVERRIDE\")\n    override fun <T> toArray(array: Array<T>):\n    Array<T> {\n        @Suppress(\"UNCHECKED_CAST\")\n        val dest = (if (array.size >= size) array else\n    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        }\n        elementData.copyInto(dest, destinationOffset = elementData.size\n    - head, startIndex = 0, endIndex = tail)\n    }\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\n    toArray(arrayOfNulls<Any?>(size))\n    }\n\n    // for testing\n    internal fun <T> testToArray(array: Array<T>):\n    Array<T> = toArray(array)\n\n    internal fun testToArray(): Array<Any?> = toArray()\n\n    internal companion\n    object {\n        private val emptyElementData = emptyArray<Any?>()\n        private const val maxArraySize =\n    Int.MAX_VALUE - 8\n        private const val defaultMinCapacity = 10\n\n        internal fun\n    newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n            // overflow-conscious\n            var newCapacity =\n    oldCapacity + (oldCapacity shr 1)\n            if (newCapacity - minCapacity < 0)\n                newCapacity =\n    minCapacity\n\n            if (newCapacity - maxArraySize > 0)\n                newCapacity = if (minCapacity > maxArraySize)\n    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 =\n    internalIndex(size)\n        val head = if (isEmpty() || head < tail) head else head - elementData.size\n    }

```



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structure(head, toArray())\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\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@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\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\n        if (v1 === v2) {\n            continue\n        } else if (v1 == null || v2 == null) {\n            return false\n        }\n\n        when {\n            v1 is Array<*> && v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return false\n
            v1 is ByteArray && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is IntArray && v2 is IntArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is LongArray && v2 is LongArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is BooleanArray && v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is UByteArray && v2 is UByteArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is UShortArray && v2 is UShortArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is UIntArray && v2 is UIntArray -> if (!v1.contentEquals(v2)) return false\n
            v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n\n            else -> if (v1 != v2) return false\n        }\n    }\n    return true\n}\n\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.JsName("contentDeepToStringImpl")\n\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 to overflow Int.MAX_VALUE\n    return buildString(length) {\n        contentDeepToStringInternal(this, mutableListOf())\n    }\n}\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n\nprivate
fun <T> Array<out T>.contentDeepToStringInternal(result: StringBuilder, 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

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= this[i]\n    when (element) {\n        null    -> result.append("\null")\n        is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n        is ByteArray ->
result.append(element.contentToString())\n        is ShortArray -> result.append(element.contentToString())\n
        is IntArray -> result.append(element.contentToString())\n        is LongArray ->
result.append(element.contentToString())\n        is FloatArray -> 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 -> result.append(element.contentToString())\n
        is UShortArray -> result.append(element.contentToString())\n        is UIntArray ->
result.append(element.contentToString())\n        is ULongArray -> 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 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/** Returns true if the brittle contains optimization
is enabled. See KT-45438. */\n\ninternal expect fun brittleContainsOptimizationEnabled(): Boolean\n\n/**\n * Returns true if [brittleContainsOptimizationEnabled] is true\n * and it's safe to convert this collection to a set
without changing contains method behavior.\n */\n\nprivate fun <T> Collection<T>.safeToConvertToSet() =
brittleContainsOptimizationEnabled() && size > 2 && this is ArrayList\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>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n    when (this) {\n        is
Set -> this\n        is Collection ->\n            when {\n                source is Collection && source.size < 2 -> this\n
                else -> if (this.safeToConvertToSet()) toHashSet() 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\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\n/**\n * Data class representing a value from a
collection or sequence, along with its index in that collection or sequence.\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/*\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.
 * @param thisRef the object for which the value is requested (not used).
 * @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.
 * @return the property value.
 * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).
 * @kotlin.internal.InlineOnly
 public inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef:

```
Any?, property: KProperty<*>): V1 =\n    @Suppress("UNCHECKED_CAST")\n    (getOrImplicitDefault(property.name) as V1)\n\n/**  
 * Returns the value of the property for the given object from this mutable map.  
 * @param thisRef the object for which the value is requested (not used).  
 * @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.  
 * @return the property value.  
 * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).
```

```
*\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/**  
 * Stores the value of the property for the given object in this mutable map.  
 * @param thisRef
```

```
the object for which the value is requested (not used).  
 * @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.  
 * @param value the value to set.  
 * @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.  
 * 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("MapsKt")\n\npackage kotlin.collections\n\n/**  
 * Returns the value for the given key, or the implicit default value for this map.  
 * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.  
 * To create a map with implicit default value use [withDefault]
```

```
method.  
 * @throws NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.
```

```
*\n@kotlin.jvm.JvmName("getOrImplicitDefaultNullable")\n@PublishedApi\ninternal fun <K, V> Map<K, V>.getOrImplicitDefault(key: K): V {\n    if (this is MapWithDefault)\n        return this.getOrImplicitDefault(key)\n    return getOrElseNullable(key, { throw NoSuchElementException("Key $key is missing in the map.") })\n}\n\n/**  
 * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].  
 * This implicit default value is used when the original map doesn't contain a value for the key specified  
 * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.  
 * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.
```

```
*\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n    when (this) {\n        is MapWithDefault -> this.map.withDefault(defaultValue)\n        else -> MapWithDefaultImpl(this, defaultValue)\n    }\n\n/**  
 * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].  
 * This implicit default value is used when the original map doesn't contain a value for the key specified  
 * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.  
 * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.
```

```
*\n@kotlin.jvm.JvmName("withDefaultMutable")\npublic fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n    when (this) {\n        is MutableMapWithDefault -> this.map.withDefault(defaultValue)\n        else ->
```

```
MutableMapWithDefaultImpl(this, defaultValue)\n    }\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n    public val map: Map<K, V>\n    public fun getOrImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> :
```

```

MutableMap<K, V>, MapWithDefault<K, V> {\n  public override val map: MutableMap<K, V>\n}\n\nprivate
class 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  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: MutableSet<K> get() = map.keys\n  override val values: MutableCollection<V> get() =
map.values\n
  override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n}\n\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  override fun clear() = map.clear()\n}\n\n  override
fun getOrDefault(key: K): V = map.getOrDefault(key, { 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@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
from this\n * collection, if it is present.\n * \n * Allows to overcome type-safety restriction of `remove` that requires
to pass an element of type `E`. \n * \n
* @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out
T>.remove(element: T): Boolean =\n  @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also
contained in the specified collection.\n * \n * Allows to overcome type-safety restriction of `removeAll` that requires
to pass a collection of type `Collection<E>`. \n * \n
* @return `true` if any of the specified elements 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>.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>`. \n * \n
* @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\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\n@kotlin.internal.InlineOnly\npublic inline operator fun
<T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\n  this.addAll(elements)\n}\n\n/**\n

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* Adds all elements of the given [elements] array to this mutable collection.\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@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@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@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@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@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 *\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 *\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 *\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 *\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

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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 * \n public 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\n public 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)\n public 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)\n public 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)\n public 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)\n public 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
*\n public 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 * \n public 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 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 * 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("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 =

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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("\nElement
index $index must be in range [0..lastIndex].")\n}\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n  if
(index in 0..size) size - index else throw IndexOutOfBoundsException("\nPosition 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 * 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 * 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 * Builds a
[Sequence] lazily yielding values one by one.\n * @see kotlin.sequences.generateSequence\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@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 * Builds an [Iterator] lazily yielding values one by
one.\n * @sample samples.collections.Sequences.Building.buildIterator\n * @sample
samples.collections.Iterables.Building.iterable\n
*/\n\n@SinceKotlin("1.3")\n\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\n@Deprecated("Use 'iterator { }' function
instead.", ReplaceWith("iterator(builderAction)"), level =
DeprecationLevel.ERROR)\n\n@kotlin.internal.InlineOnly\n\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 * @see sequence\n * @see iterator\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*/\n\n@RestrictsSuspension\n@SinceKotlin("1.3")\n\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   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n   * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*/\n   public abstract suspend fun yield(value:
T)\n\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   * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n
*/\n   public abstract suspend fun
yieldAll(iterator: Iterator<T>)\n\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

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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    /**\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                        } else {\n                            nextIterator = null\n
}\n                    State_Done -> return false\n                    State_Ready, State_ManyReady -> return true\n                    else ->
throw exceptionalState()\n                }\n                state = State_Failed\n                val step = nextStep!!\n                nextStep =
null\n                step.resume(Unit)\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                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\npackage kotlin.collections\n\ninternal 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\ninternal 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\ninternal
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 >

```



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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}\n\n    if (buffer.isEmpty()) {\n    if (partialWindows || buffer.size == size) yield(buffer)\n    }\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 =\n    buffer.expanded(maxCapacity = size); continue }\n    yield(if (reuseBuffer) buffer else\n    ArrayList(buffer))\n    buffer.removeFirst(step)\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.isEmpty()) yield(buffer)\n    }\n}\n}\n\ninternal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\nprivate\n    var fromIndex: Int = 0\n    private var _size: Int = 0\n\n    fun move(fromIndex: Int, toIndex: Int) {\n    checkRangeIndexes(fromIndex, toIndex, list.size)\n    this.fromIndex = fromIndex\n    this._size = toIndex -\n    fromIndex\n    }\n\n    override fun get(index: Int): E {\n    checkElementIndex(index, _size)\n    return\n    list[fromIndex + index]\n    }\n\n    override val size: Int get() = _size\n}\n\n/**\n * Provides ring buffer\n implementation.\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\n */\nprivate class RingBuffer<T>(private val buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(),\nRandomAccess {\n    init {\n    require(filledSize >= 0) { \"ring buffer filled size should not be negative but it is\n    $filledSize\" }\n    require(filledSize <= buffer.size) { \"ring buffer filled size: $filledSize cannot be larger than\n    the buffer size: ${buffer.size}\" }\n    }\n\n    constructor(capacity: Int)\n    : this(arrayOfNulls<Any?>(capacity), 0)\n\n    private val capacity = buffer.size\n    private var startIndex: Int =\n    0\n\n    override var size: Int = filledSize\n    private set\n\n    override fun get(index: Int): T {\n    checkElementIndex(index, size)\n    @Suppress(\"UNCHECKED_CAST\")\n    return\n    buffer[startIndex.forward(index)] as T\n    }\n\n    fun isFull() = size == capacity\n\n    override fun iterator():\n    Iterator<T> = object : AbstractIterator<T>() {\n    private var count = size\n    private var index = startIndex\n\n    override fun computeNext() {\n    if (count == 0) {\n    done()\n    } else {\n    @Suppress(\"UNCHECKED_CAST\")\n    setNext(buffer[index] as T)\n    index =\n    index.forward(1)\n    count--\n    }\n    }\n\n    @Suppress(\"UNCHECKED_CAST\")\n    override fun <T> toArray(array: Array<T>): Array<T> {\n    val 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\n    while (widx < size && idx < capacity) {\n    result[widx] =\n    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\n    if (result.size > this.size)\n    result[this.size] = null\n\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\n     minimum of [maxCapacity] and 1.5 * [capacity].\n     * The returned ring buffer contains the same elements as this\n     ring buffer.\n     */\n    fun expanded(maxCapacity: Int): RingBuffer<T> {\n    val newCapacity = (capacity +\n    (capacity shr 1) + 1).coerceAtMost(maxCapacity)\n\n    val newBuffer = if (startIndex == 0) buffer.copyOf(newCapacity) else toArray(arrayOfNulls(newCapacity))\n\n    return RingBuffer(newBuffer, size)\n    }\n\n    /**\n     * Add [element] to the buffer or fail with\n     [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\n    buffer[startIndex.forward(size)] =\n    element\n    size++\n    }\n\n    /**\n     * Removes [n] first elements from the buffer or fails with\n     [IllegalArgumentException] if not enough elements in the buffer to remove\n     */\n    fun removeFirst(n: Int) {\n    require(n >= 0) { \"n shouldn't be negative but it is $n\" }\n    require(n <= size) { \"n shouldn't be greater than\n    the buffer size: n = $n, size = $size\" }\n\n    if (n > 0) {\n    val start = startIndex\n    val end =\n    start.forward(n)\n\n    if

```

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(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\npackage kotlin.collections\n// UByteArray
=====
\n@Exp
erimentalUnsignedTypes\nprivate 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\nprivate 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@Exp
erimentalUnsignedTypes\nprivate 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            i++\n            j--\n        }\n    }\n    return
i\n}\n\n@ExperimentalUnsignedTypes\nprivate 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@Exp
erimentalUnsignedTypes\nprivate 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\nprivate 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@Exp
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 * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of

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```

package kotlin.internal.InlineOnly
 * Compares this object with the specified object
for order. Returns zero if this object is equal
 * to the specified [other] object, a negative number if it's less than
[other], or a positive number
 * if it's greater than [other].
 * This function delegates to
[Comparable.compareTo] and allows to call it in infix form.
 *
@InlineOnly
@SinceKotlin("1.6")
public inline infix fun <T> Comparable<T>.compareTo(other: T): Int =
    this.compareTo(other)
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by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
package
kotlin.contracts
import kotlin.internal.ContractsDsl
import kotlin.internal.InlineOnly
 * This marker
distinguishes the
experimental contract declaration API and is used to opt-in for that feature
 * when declaring contracts of user
functions.
 * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either
by
 * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,
 * or by
using the compiler argument `-opt-in=kotlin.contracts.ExperimentalContracts`.
 *
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.3")
@RequiresOptIn
@MustBeDocumente
d
public annotation class ExperimentalContracts
 * Provides a scope, where the functions of the contract
DSL, such as [returns], [callsInPlace], etc.,
 * can be used to describe the contract of a function.
 * This type is
used as a receiver type of the lambda function passed to the [contract] function.
 * @see contract
 *
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public interface ContractBuilder {
 *
 * Describes a situation
when a function returns normally, without any exceptions thrown.
 *
 * Use [SimpleEffect.implies] function
to describe a conditional effect that happens in such case.
 *
 *
 * // @sample
samples.contracts.returnsContract
 @ContractsDsl public fun returns(): Returns
 *
 * Describes a
situation when a function returns normally with the specified return [value].
 *
 * The possible values of
[value] are limited to `true`, `false` or `null`.
 *
 * Use [SimpleEffect.implies] function to describe a
conditional effect that happens in such case.
 *
 *
 * // @sample samples.contracts.returnsTrueContract
// @sample samples.contracts.returnsFalseContract
// @sample samples.contracts.returnsNullContract
@ContractsDsl public fun returns(value: Any?): Returns
 *
 * Describes a situation when a function
returns normally with any value that is not `null`.
 *
 * Use [SimpleEffect.implies] function
to describe a conditional effect that happens in such case.
 *
 *
 * // @sample
samples.contracts.returnsNotNullContract
 @ContractsDsl public fun returnsNotNull(): ReturnsNotNull
 *
 * Specifies that the function parameter [lambda] is invoked in place.
 *
 * This contract specifies
that:
 * 1. the function [lambda] can only be invoked during the call of the owner function,
 * and it won't be
invoked after that owner function call is completed;
 * 2. (optionally) the function [lambda] is invoked the
amount of times specified by the [kind] parameter,
 * see the [InvocationKind] enum for possible values.
 *
 * A function declaring the `callsInPlace` effect must be _inline_.
 *
 *
 * // @sample
samples.contracts.callsInPlaceAtMostOnceContract
 * @sample
samples.contracts.callsInPlaceAtLeastOnceContract
 * @sample
samples.contracts.callsInPlaceExactlyOnceContract
 * @sample
samples.contracts.callsInPlaceUnknownContract
 *
 *
 * @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind =
InvocationKind.UNKNOWN): CallsInPlace
 *
 * Specifies how many times a function invokes its function
parameter in place.
 *
 * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.
 *
 *
 *
 *
@ContractsDsl
@ExperimentalContracts
@SinceKotlin("1.3")
public enum class InvocationKind {
 *
 * A function parameter will be invoked one time or not invoked at all.
 *
 *
 * // @sample
samples.contracts.callsInPlaceAtMostOnceContract
 @ContractsDsl AT_MOST_ONCE,
 *
 * A
function parameter will be invoked one or more times.
 *
 *
 * // @sample
samples.contracts.callsInPlaceAtLeastOnceContract
 @ContractsDsl AT_LEAST_ONCE,
 *
 * A

```

```

function parameter will be invoked exactly one time.\n    *\n    */\n    // @sample
samples.contracts.callsInPlaceExactlyOnceContract\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    */\n    // @sample samples.contracts.callsInPlaceUnknownContract\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 *
@sample
samples.contracts.callsInPlaceUnknownContract\n\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@
SinceKotlin("1.3")\n@Suppress("UNUSED_PARAMETER")\npublic inline fun contract(builder:
ContractBuilder.() -> Unit) { }\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 * 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\n@SinceKotlin("1.3")\npublic interface ContinuationInterceptor :
CoroutineContext.Element {\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

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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 * @SinceKotlin("1.3")\n */\n public 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     * 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     * 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     * 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     * 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        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\nimport kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class
for [CoroutineContext.Element] implementations.\n * @SinceKotlin("1.3")\n */\n public abstract class
AbstractCoroutineContextElement(public override val key: Key<*>) : Element\n\n/**\n * Base class for
[CoroutineContext.Key] associated with polymorphic [CoroutineContext.Element] implementation.\n *
Polymorphic element implementation implies delegating its [get][Element.get] and
[minusKey][Element.minusKey]\n * to [getPolymorphicElement]
and [minusPolymorphicKey] respectively.\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 * class DerivedElement : BaseElement() {\n *

```

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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@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic abstract class AbstractCoroutineContextKey<B :
Element, E : B>(\n baseKey: Key<B>,\n private val safeCast: (element: Element) -> E?)\n) : 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@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@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@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\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 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

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containsAll(context: CombinedContext): Boolean {
    var cur = context
    while (true) {
        if (!contains(cur.element)) return false
        val next = cur.left
        if (next is CombinedContext) {
            cur = next
        }
    }
    else {
        return contains(next as Element)
    }
}

override fun equals(other: Any?): Boolean =
    this === other || other is CombinedContext && other.size() == size() &&
    other.containsAll(this)

override fun hashCode(): Int = left.hashCode() + element.hashCode()

override fun toString(): String =
    "[" + fold("") { acc, element ->
        if (acc.isEmpty()) element.toString() else
        "$acc, $element"
    } + "]"

private fun writeReplace(): Any {
    val n = size()
    val elements =
        arrayOfNulls<CoroutineContext>(n)
    var index = 0
    fold(Unit) { _, element -> elements[index++] =
        element }
    check(index == n)
    @Suppress("UNCHECKED_CAST")
    return Serialized(elements
        as Array<CoroutineContext>)
}

private class Serialized(val elements: Array<CoroutineContext>) :
    Serializable {
    companion object {
        private const val serialVersionUID:
            Long = 0L
    }

    private fun readResolve(): Any = elements.fold(EmptyCoroutineContext,
        CoroutineContext::plus)
}

/*
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 * Language contributors.
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 * license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmName("IntrinsicsKt")
@file:kotlin.jvm.JvmMultifileClass
package
kotlin.coroutines.intrinsics
import kotlin.contracts.*
import kotlin.coroutines.*
import
kotlin.internal.InlineOnly

/**
 * Obtains the current continuation instance inside suspend functions and either
 * suspends currently running coroutine or returns result immediately without suspension.
 * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution
 * and will not return any result immediately. In this case, the [Continuation] provided to the [block] shall
 * be resumed by invoking [Continuation.resumeWith] at some moment in the future when the result becomes
 * available to resume the computation. Otherwise, the return value of the [block] must have a type assignable
 * to [T] and represents the result of this suspend function. It means that the execution was not suspended and the
 * [Continuation] provided to the [block] shall not be invoked. As the result type of the [block] is declared as
 * `Any?` and cannot be correctly type-checked, its proper return type remains on the conscience of the suspend
 * function's author. Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's
 * thread without going through the [ContinuationInterceptor] that might be present in the coroutine's
 * [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established.
 * [Continuation.intercepted] can be used to acquire the intercepted continuation. 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.
 */
@SinceKotlin("1.3")
@InlineOnly
@Suppress("UNUSED_PARAMETER",
    "RedundantSuspendModifier")
public suspend inline fun <T>
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    throw NotImplementedError("Implementation of
suspendCoroutineUninterceptedOrReturn is intrinsic")
}

/**
 * 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.
**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.
*/
// It is implemented as property with getter to
avoid ProGuard <clinit> problem with multifile IntrinsicsKt class
@SinceKotlin("1.3")
public val
COROUTINE_SUSPENDED: Any
get() = CoroutineSingletons.COROUTINE_SUSPENDED
// Using enum
here ensures two important properties:
1. It makes SafeContinuation serializable with all kinds of serialization
frameworks (since all of them natively support enums)
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

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.experimental\n\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\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\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\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\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\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\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\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"/\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.experimental\n\n/**\n * The experimental marker for type inference augmenting annotations.\n * Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`,\n * or by using the compiler argument `-opt-in=kotlin.experimental.ExperimentalTypeInference`.\n */\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/** Specifies that the corresponding type should be ignored during type inference.\n

*\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class NoInfer\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)\ninternal annotation class Exact\n\n/** Specifies that a corresponding member has the lowest priority in overload resolution.\n

*\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class LowPriorityInOverloadResolution\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)\ninternal annotation class HidesMembers\n\n/** The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n


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*/\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\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)\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)\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@SinceK
otlin("1.2")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is
only completely supported since the specified version.\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 * [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 * 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,
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

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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<*>, oldValue: T, newValue:
T) -> Unit):\n        ReadWriteProperty<Any?, T> =\n            object : ObservableProperty<T>(initialValue) {\n
override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue,
newValue)\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        * @sample
samples.properties.Delegates.throwVetoableDelegate\n        */\n        public inline fun <T> vetoable(initialValue: T,
crossinline 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,
newValue)\n            }\n\n\nprivate 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("\nProperty ${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
*\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.properties\n\nimport 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\npublic fun
interface ReadOnlyProperty<in T, out 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 operator fun getValue(thisRef:
T, property: KProperty<*>): V\n}\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    */\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\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

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for the property.\n * @return the property delegate.\n */\n public operator fun provideDelegate(thisRef: T,
property: KProperty<*>): D{\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 * 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 * 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 * 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: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 * 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 */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline 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 * 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 * 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 */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
KMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n set(value)\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 * The reference has an unbound receiver of
type [T].\n */\n * Example:\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 */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KProperty1<T,
V>.getValue(thisRef: T, property: KProperty<*>): V {\n return get(thisRef)\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

```

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of type [V] or its subtype.\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\n * Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n * get() =\n * this.incorrectAttemptCounter\n * set(value) { this.incorrectAttemptCounter = value }\n * ```\n *\n * @SinceKotlin("1.4")\n * @kotlin.internal.InlineOnly\n * public inline operator fun <T, V> KMutableProperty1<T,\n * 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\npackage kotlin.random\n\nimport kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n *\n * The companion object [Random.Default]\n * 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")\npublic 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    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 = 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\n    /**\n     * Gets the next random `Long` from the random number generator.\n     *\n     * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n     *\n     * @sample samples.random.Randoms.nextLong\n     */\n    public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n\n    /**\n     * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\n     *\n     * Generates a `Long` 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.nextLongFromUntil\n     */\n    public open fun nextLong(until: Long): Long = nextLong(0, until)\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 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.nextLongFromUntil\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
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    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                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                * Gets the
next random [Boolean] value.\n                *\n                * @sample samples.random.Randoms.nextBoolean\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                *\n                * @sample samples.random.Randoms.nextDouble\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                */\n
                *\n                * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).\n                *\n
                * @throws IllegalArgumentException if [until] is negative or zero.\n                *\n                * @sample
samples.random.Randoms.nextDoubleFromUntil\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                *\n                * Generates a `Double` random value uniformly distributed between the specified [from]
(inclusive) and [until] (exclusive) bounds.\n                *\n                * [from] and [until] must be finite otherwise the behavior is
unspecified.\n                *\n                * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n                */\n
                * @sample samples.random.Randoms.nextDoubleFromUntil\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                *\n                * @sample samples.random.Randoms.nextFloat\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 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) { "\n                fromIndex ($fromIndex) or toIndex ($toIndex) are out of range:
0..${array.size}.\n                " }\n                require(fromIndex <= toIndex) { "\n                fromIndex ($fromIndex) must be not greater than
toIndex ($toIndex).\n                " }\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 =
nextBits(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
                *\n                * @return [array] filled with random bytes.\n                */\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
                *\n                * @sample samples.random.DefaultRandom\n                */\n                companion object Default : Random(),
Serializable {\n                private val defaultRandom: Random = defaultPlatformRandom()\n                private object

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Serialized : Serializable {
    private const val serialVersionUID = 0L
    private fun readResolve(): Any = Random
}
private fun writeReplace(): Any = Serialized
override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)
override fun nextInt(): Int = defaultRandom.nextInt()
override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)
override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from, until)
override fun nextLong(): Long = defaultRandom.nextLong()
override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)
override fun nextLong(from: Long, until: Long): Long = defaultRandom.nextLong(from, until)
override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()
override fun nextDouble(): Double = defaultRandom.nextDouble()
override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)
override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)
override fun nextFloat(): Float = defaultRandom.nextFloat()
override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)
override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)
override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)
}

Returns a repeatable random number generator seeded with the given [seed] `Int` value.
Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
Note: Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return a sequence of values different from the current one for a given seed.
On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.
@sample samples.random.Randoms.seededRandom
@SinceKotlin("1.3")
public fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))
Returns a repeatable random number generator seeded with the given [seed] `Long` value.
Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.
Note: Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return a sequence of values different from the current one for a given seed.
On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.
@sample samples.random.Randoms.seededRandom
@SinceKotlin("1.3")
public fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())
Gets the next random `Int` from the random number generator in the specified [range].
Generates an `Int` random value uniformly distributed in the specified [range]: from `range.start` inclusive to `range.endInclusive` inclusive.
@throws IllegalArgumentException if [range] is empty.
@SinceKotlin("1.3")
public fun Random.nextInt(range: IntRange): Int = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)
    range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1
    else -> nextInt()
}
Gets the next random `Long` from the random number generator in the specified [range].
Generates a `Long` random value uniformly distributed in the specified [range]: from `range.start` inclusive to `range.endInclusive` inclusive.
@throws IllegalArgumentException if [range] is empty.
@SinceKotlin("1.3")
public fun Random.nextLong(range: LongRange): Long = when {
    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < Long.MAX_VALUE -> nextLong(range.first, range.last + 1)
    range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) + 1
    else -> nextLong()
}
internal expect fun defaultPlatformRandom(): Random
internal expect fun doubleFromParts(hi26: Int, low27: Int): Double
internal fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()
Takes upper [bitCount] bits (0..32) from this number.
internal fun Int.takeUpperBits(bitCount: Int): Int = this.ushr(32 - bitCount) and (-bitCount).shr(31)
internal fun checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }
internal fun checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }

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fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until)
}
internal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from,
$until)."
/*
 * 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.
 */
package kotlin.random
/**
 * Gets the next random [UInt]
 * from the random number generator.
 *
 * Generates a [UInt] random value uniformly distributed between
 * [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
Random.nextUInt(): UInt = nextInt().toUInt()
/**
 * Gets the next random [UInt] from the random number
 * generator less than the specified [until] bound.
 *
 * Generates a [UInt] random value uniformly distributed
 * between `0` (inclusive) and the specified [until] bound (exclusive).
 *
 * @throws IllegalArgumentException if [until] is zero.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)
/**
 * Gets the next random
 * [UInt] from the random number generator in the specified range.
 *
 * Generates a [UInt] random value
 * uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.
 *
 * @throws IllegalArgumentException if [from] is greater than or equal to [until].
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
Random.nextUInt(from: UInt, until: UInt): UInt {
    checkUIntRangeBounds(from, until)
    val signedFrom =
from.toInt() xor Int.MIN_VALUE
    val signedUntil = until.toInt() xor Int.MIN_VALUE
    val signedResult =
nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE
    return signedResult.toUInt()
}
/**
 * Gets the next
 * random [UInt] from the random number generator in the specified [range].
 *
 * Generates a [UInt] random value
 * uniformly distributed in the specified [range]:
 *
 * from `range.start` inclusive to `range.endInclusive` inclusive.
 *
 * @throws IllegalArgumentException if [range] is
 * empty.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
Random.nextUInt(range: UIntRange): UInt = when {
    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")
    range.last < UInt.MAX_VALUE ->
nextUInt(range.first, range.last + 1u)
    range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) +
1u
    else -> nextUInt()
}
/**
 * Gets the next random [ULong] from the random number generator.
 *
 * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
 * [ULong.MAX_VALUE] (inclusive).
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
Random.nextULong(): ULong = nextLong().toULong()
/**
 * Gets the next random [ULong] from the random
 * number generator less than the specified [until] bound.
 *
 * Generates a [ULong] random value uniformly
 * distributed between `0` (inclusive) and the specified [until] bound
 * (exclusive).
 *
 * @throws IllegalArgumentException if [until] is zero.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
Random.nextULong(until: ULong): ULong = nextULong(0uL, until)
/**
 * Gets the next random [ULong] from
 * the random number generator in the specified range.
 *
 * Generates a [ULong] random value uniformly
 * distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.
 *
 * @throws
 * IllegalArgumentException if [from] is greater than or equal to [until].
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
Random.nextULong(from: ULong, until: ULong): ULong {
    checkULongRangeBounds(from, until)
    val signedFrom = from.toLong() xor Long.MIN_VALUE
    val signedUntil = until.toLong() xor
Long.MIN_VALUE
    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE
    return signedResult.toULong()
}
/**
 * Gets the next random
 * [ULong] from the random number generator in the specified [range].
 *
 * Generates a [ULong] random value
 * uniformly distributed in the specified [range]:
 *
 * from `range.start` inclusive to `range.endInclusive` inclusive.
 *
 * @throws IllegalArgumentException if [range] is empty.
 */

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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(range: ULongRange): ULong = when {\n    range.isEmpty() -> throw
IllegalArgumentExceptio("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 * @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 * @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\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 * 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 * 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 * 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) :n        this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr
4))\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 {\n
// Equivalent to the xorwow algorithm\n        // From Marsaglia, G. 2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p.
5\n        var t = x\n        t = t xor (t ushr 2)\n        x = y\n        y = z\n        z = w\n        val v0 = v\n        w = v0\n        t
= (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n        v = t\n        addend += 362437\n        return t + addend\n    }\n
    override fun nextBits(bitCount: Int): Int =\n        nextInt().takeUpperBits(bitCount)\n\n    private companion object
{\n        private const val serialVersionUID: Long = 0L\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@nfile:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage
kotlin.ranges\n\n/**\n * Represents a range of [Comparable] values.\n
*\n@private open class ComparableRange<T> :
Comparable<T>>(\n    override val start: T,\n    override val endInclusive: T\n) : ClosedRange<T> {\n    override
fun equals(other: Any?): Boolean {\n        return other is ComparableRange<*> && (isEmpty() && other.isEmpty())
||\n            start == other.start && endInclusive == other.endInclusive)\n    }\n    override fun hashCode(): Int
{\n        return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()\n    }\n    override fun
toString(): String = "$start..$endInclusive"\n}\n\n/**\n * Creates a range from this [Comparable] value to the
specified [that] value.\n * This value needs to be smaller than or equal to [that] value, otherwise the returned
range will be empty.\n * @sample samples.ranges.Ranges.rangeFromComparable\n
*\n@public operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this,
that)\n\n/**\n * Represents a range of floating point numbers.\n * 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)
    }
    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 [Float] value to the specified [that] value.

Numbers are compared with the ends of this range according to IEEE-754.

```

@sample samples.ranges.Ranges.rangeFromFloat

```

SinceKotlin("1.1")

```

public operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> =
    ClosedFloatRange(this, that)

```

/** Returns `true` if this iterable range contains the specified [element].

Always returns `false` if the [element] is `null`.

```

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T, R> R.contains(element: T?): Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =
    element != null && contains(element)

```

internal fun checkStepIsPositive(isPositive: Boolean, step: Number) {
 if (!isPositive) throw IllegalArgumentException("Step must be positive, was: \$step.")
}

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```

@file:kotlin.jvm.JvmName("KClasses")
@file:Suppress("UNCHECKED_CAST")
package kotlin.reflect
import kotlin.internal.LowPriorityInOverloadResolution

```

/** Casts the given [value] to the class represented by this [KClass] object.

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 * 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 * Represents a type
projection. Type projection is usually the argument to another type in a type usage.\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
* Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.\n *\n
* See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n *
for more information.\n */\n\n @SinceKotlin("1.1")\n public
data class KTypeProjection constructor(\n     /**\n     * The use-site variance specified in the projection, or `null` if
this is a star projection.\n     */\n     public val variance: KVariance?,\n     /**\n     * The type specified in the
projection, or `null` if this is a star projection.\n     */\n     public val type: KType?) {\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     override fun toString(): String = when (variance) {\n         null -> "*" \n         KVariance.INVARIANT
-> type.toString()\n         KVariance.IN -> "in $type" \n         KVariance.OUT -> "out $type" \n     }\n     public
companion object {\n         // provided for compiler access\n         @JvmField\n         @PublishedApi\n         internal
val
star: KTypeProjection = KTypeProjection(null, null)\n\n         /**\n         * Star projection, denoted by the `*`
character.\n         * For example, in the type `KClass<*>`, `*` is the star projection.\n         * See the [Kotlin
language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n         * for more
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\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.reflect\n\n /**\n * Represents variance applied

```

to a type parameter on the declaration site (**declaration-site variance**),
 or to a type in a projection (**use-site variance**).
 See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance) for more information.
 See [KTypeParameter.variance] or [KTypeProjection] since Kotlin 1.1.
 The affected type parameter or type is **invariant**, which means it has no variance applied to it.
 INVARIANT.
 The affected type parameter or type is **contravariant**. Denoted by the `in` modifier in the source code.
 IN.
 The affected type parameter or type is **covariant**. Denoted by the `out` modifier in the source code.
 OUT.
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file.
 Returns a runtime representation of the given reified type [T] as an instance of [KType].
 Note that on JVM, the created type has no annotations ([KType.annotations] returns an empty list) even if the type in the source code is annotated. Support for type annotations might be added in a future version.
 Since Kotlin 1.6.
 WasExperimental(ExperimentalStdlibApi::class)
 public inline fun <reified T> typeOf(): KType = throw UnsupportedOperationException("This function is implemented as an intrinsic on all supported platforms.")
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file:kotlin.jvm.JvmMultifileClass
 file:kotlin.jvm.JvmName("StringsKt")

kotlin.text.
 An object to which char sequences and values can be

appended.
 expect interface Appendable {
 Appends the specified character [value] to this Appendable and returns this instance.
 @param value the character to append.
 fun append(value: Char): Appendable
 Appends the specified character sequence [value] to this Appendable and returns this instance.
 @param value the character sequence to append. If [value] is `null`, then the four characters `"null"` are appended to this Appendable.
 fun append(value: CharSequence?): Appendable
 Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.
 @param value the character sequence from which a subsequence is appended. If [value] is `null`, then characters are appended as if [value] contained the four characters `"null"`.
 @param startIndex the beginning (inclusive) of the subsequence to append.
 @param endIndex the end (exclusive) of the subsequence to append.
 @throws

IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.
 fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable
 Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.
 @param value the character sequence from which a subsequence is appended.
 @param startIndex the beginning (inclusive) of the subsequence to append.
 @param endIndex the end (exclusive) of the subsequence to append.
 @throws

IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.

Since Kotlin 1.4.
 WasExperimental(ExperimentalStdlibApi::class)
 public

fun <T : Appendable> T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {
 @Suppress("UNCHECKED_CAST") return append(value, startIndex, endIndex) as T
 Appends all arguments to the given [Appendable].
 public fun <T : Appendable> T.append(vararg value: CharSequence?): T {
 for (item in value) append(item)
 return this
 Appends a line feed character (`\n`) to this Appendable.
 Since Kotlin 1.4.
 kotlin.internal.InlineOnly
 public inline fun Appendable.appendLine(): Appendable = append("\n")
 Appends value to the given Appendable and a line feed character (`\n`) after it.
 Since Kotlin 1.4.
 kotlin.internal.InlineOnly
 public inline fun Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()
 Appends value to the given Appendable and a line feed character (`\n`) after it.

```

*\/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun Appendable.appendLine(value:
Char): Appendable = append(value).appendLine()\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 * 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 *\/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), { 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 * 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/**\n * Detects a common
minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\n *\/npublic fun
String.replaceIndent(newIndent: String = "\n"): 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 * Prepends [indent] to every line of the original string.\n * \n * Doesn't
preserve the original line endings.\n *\/npublic fun String.prependIndent(indent: String = " "): String =\n    lineSequence()\n        .map {\n            when {\n                it.isBlank() -> {\n                    when {\n
it.length < indent.length -> indent\n                    else -> it\n                }\n            }\n            else -> indent +
it\n        }\n        .joinToString("\n")\n/private
fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\n/private fun
getIndentFunction(indent: String) = when {\n    indent.isEmpty() -> { line: String -> line }\n    else -> { line: String -
> indent + line }\n}\n/private 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 * 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("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\n @DeprecatedSinceKotlin("1.6")\n public const val rightGuillemete: Char = "\u00BB"\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 * Represents a collection of captured groups in a single match of a regular expression.\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n *\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n *\n * An element of the collection at the particular index can be `null` if the corresponding group in the regular expression is optional and there was no match captured by that group.\n *\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\n /** Returns a group with the specified [index].\n *\n * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\n *\n * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0 corresponds to the entire match.\n *\n *\n public operator fun get(index: Int): MatchGroup?\n}"/**\n * Extends

```

[MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.

```

*\n@SinceKotlin("1.1")\npublic interface MatchNamedGroupCollection : MatchGroupCollection {\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    public operator fun get(name: String): MatchGroup?\n}\n\n/**\n * Represents the results from a single regular expression match.\n */\npublic interface MatchResult {\n    /** The range of indices in the original string where match was captured. */\n    public val range: IntRange\n    /** The substring from the input string captured by this match. */\n    public val value: String\n    /** A collection of groups matched by the regular expression. */\n    public val groups: MatchGroupCollection\n    /** A list of matched indexed group values. This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression. Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match. If the group in the regular expression is optional and there were no match captured by that group, corresponding item in [groupValues] is an empty string. */\n    public val groupValues: List<String>\n\n    /** An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values. component1 corresponds to the value of the first group, component2 of the second, and so on. */\n    public val destructured: Destructured\n\n    /** Returns a new [MatchResult] with the results for the next match, starting at the position at which the last match ended (at the character after the last matched character). */\n    public fun next(): MatchResult?\n\n    /** Provides components for destructuring assignment of group values. [component1] corresponds to the value of the first group, [component2] of the second, and so on. If the group in the regular expression is optional and there were no match captured by that group, corresponding component value is an empty string. */\n    public class Destructured internal constructor(public val match: MatchResult) {\n        @kotlin.internal.InlineOnly\n        public operator inline fun component1(): String = match.groupValues[1]\n        @kotlin.internal.InlineOnly\n        public operator inline fun component2(): String = match.groupValues[2]\n        @kotlin.internal.InlineOnly\n        public operator inline fun component3(): String = match.groupValues[3]\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\n    /** Returns destructured group values as a list of strings. First value in the returned list corresponds to the value of the first group, and so on. */\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. 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")\npackage kotlin.time\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed. The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24

```

```

[HOURLS].\n *\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\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
MICROSECONDS,\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 *\n
SECONDS,\n /**\n * Time unit representing one minute.\n *\n
MINUTES,\n
/**\n * Time unit representing one hour.\n *\n
HOURS,\n /**\n * Time unit representing one day, which
is always equal to 24 hours.\n *\n
DAYS;\n}\n\n/** Converts the given time duration [value] expressed in the
specified [sourceUnit] into the specified [targetUnit]. *\n@SinceKotlin("1.3")\n\ninternal expect fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double\n\n// overflown
result is unspecified\n@SinceKotlin("1.5")\n\ninternal expect fun convertDurationUnitOverflow(value: Long,
sourceUnit: DurationUnit, targetUnit: DurationUnit): Long\n\n// overflown result is coerced in the Long range
boundaries\n@SinceKotlin("1.5")\n\ninternal expect fun convertDurationUnit(value: Long, sourceUnit:
DurationUnit, targetUnit: DurationUnit):
Long\n\n\n@SinceKotlin("1.3")\n\n@Suppress("REDUNDANT_ELSE_IN_WHEN")\n\ninternal 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@SinceKotlin("1.5")\n\ninternal 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@SinceKotlin("1.5")\n\ninternal 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 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.time\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n *
This annotation marks the experimental preview of
the standard library API for measuring time and working with durations.\n *\n * > Note that this API is in a preview
state and has a very high chance of being changed in the future.\n *\n * Do not use it if you develop a library since your
library will become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a
declaration annotated with `@ExperimentalTime` must be accepted either by\n * annotating that usage with the
[OptIn] annotation, e.g. `@OptIn(ExperimentalTime::class)`,\n * or by using the compiler argument `-opt-
in=kotlin.time.ExperimentalTime`.\n *\n\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@MustBeDocumented\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@SinceKotlin("1.3")\n\npublic annotation class
ExperimentalTime\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\n/**\n * A source of time for measuring time intervals.\n *\n * 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()
    }

    /**
     * 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 = elapsedNow().isNegative()
    }

    @ExperimentalTime
    @SinceKotlin("1.3")
    @kotlin.internal.InlineOnly
    @Deprecated(" Subtracting one TimeMark from another is not a well defined operation because these time marks could have been obtained from the different time sources.", level = DeprecationLevel.ERROR)
    @Suppress("UNUSED_PARAMETER")
    public inline operator fun TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is disallowed.")

    @ExperimentalTime
    @SinceKotlin("1.3")
    @kotlin.internal.InlineOnly
    @Deprecated(" Comparing one TimeMark to another is not a well defined operation because these time marks could have been obtained from the different time sources.", level = DeprecationLevel.ERROR)
    @Suppress("UNUSED_PARAMETER")
    public inline operator fun TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is disallowed.")

    @ExperimentalTime
    private class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) : TimeMark() {
        override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment
        override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)
    }
}

/*
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 */
package kotlin.time

@SinceKotlin("1.3")
@ExperimentalTime
internal expect object MonotonicTimeSource : TimeSource {
    /**
     * An abstract class used to implement time sources that return their readings as [Long] values in the specified [unit].
     *
     * @property unit The unit in which this time

```



```

source's readings are expressed.
*/@SinceKotlin("1.3")@ExperimentalTime
public abstract class
AbstractLongTimeSource(protected val unit: DurationUnit) : TimeSource {
    /** This protected method should be overridden to return the current reading of the time source expressed as a [Long] number in the unit specified by the [unit] property.
    protected abstract fun read(): Long
    private class
LongTimeMark(private val startedAt: Long, private val timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {
    override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset
    override fun plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)
}
override fun markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)
}
/** An abstract class used to implement time sources that return their readings as [Double] values in the specified [unit].
*/@property unit
The unit in which this time source's readings are expressed.
*/@SinceKotlin("1.3")@ExperimentalTime
public abstract class AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource {
    /** This protected method should be overridden to return the current reading of the time source expressed as a [Double] number in the unit specified by the [unit] property.
    protected abstract fun read(): Double
    private class DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {
    override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset
    override fun plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)
}
override fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)
}
/** A time source that has programmatically updatable readings. It is useful as a predictable source of time in tests.
*/
/** The current reading value can be advanced by the specified duration amount with the operator [plusAssign]:
*/
val timeSource = TestTimeSource()
timeSource += 10.seconds
/** Implementation note: the current reading value is stored as a [Long] number of nanoseconds, thus it's capable to represent a time range of approximately 1292 years.
Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.
*/@SinceKotlin("1.3")@ExperimentalTime
public class TestTimeSource : AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {
    private var reading: Long = 0L
    override fun read(): Long = reading
    /** Advances the current reading value of this time source by the specified [duration].
    [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.
    For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't advance because the duration value is rounded to zero nanoseconds.
    @throws IllegalStateException when the reading value overflows as the result of this operation.
    public operator fun plusAssign(duration: Duration) {
        val longDelta = duration.toLong(unit)
        reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {
            // when delta fits in long, add it as long
            val newReading = reading + longDelta
            if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)
            newReading
        } else {
            val delta = duration.toDouble(unit)
            // when delta is greater than long, add it as double
            val newReading = reading + delta
            if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)
            newReading.toLong()
        }
    }
    private fun overflow(duration: Duration) {
        throw IllegalStateException("TestTimeSource will overflow if its reading ${reading}ns is advanced by $duration.")
    }
}
/** Copyright 2010-2020 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.time
import kotlin.contracts.*
/** Executes the given function [block] and returns the duration of elapsed time interval.
The elapsed time is measured with [TimeSource.Monotonic].
*/@SinceKotlin("1.3")@ExperimentalTime
public inline fun measureTime(block: () -> Unit): Duration {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    return TimeSource.Monotonic.measureTime(block)
}
/** Executes the given function [block] and returns the duration of elapsed time interval.
The elapsed time is measured with the specified `this` [TimeSource] instance.

```

```

*\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 * Data class representing a result of executing
an action, along with the duration of elapsed time interval.\n *\n * @property value the result of the action.\n *\n * @property duration the time elapsed to execute the action.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic data class TimedValue<T>(val value:
T, val duration: Duration)\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 *\n * The
elapsed time is measured with [TimeSource.Monotonic].\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 * 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 *\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\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@package kotlin\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.native.concurrent.SharedImmutable\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 *\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.
\n * 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.\n *\n * For example, take a look at the following recursive tree class and a deeply\n *
recursive instance of this tree with 100K nodes:\n *\n * ``\n * class Tree(val left: Tree? = null, val right: Tree? =
null)\n * val deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()\n * ``\n *\n * A regular
recursive function can be defined to compute a depth of a tree:\n *\n * ``\n * fun depth(t: Tree?): Int =\n * if (t ==
null) 0 else max(depth(t.left), depth(t.right)) + 1\n * println(depth(deepTree)) // StackOverflowError\n * ``\n *\n *
If this `depth` function is called for a `deepTree` it produces [StackOverflowError] because of deep recursion.\n *
However, the `depth` function can be rewritten using `DeepRecursiveFunction`
\n * in the following way, and then\n * it successfully computes [depth(deepTree)][DeepRecursiveFunction.invoke]
expression:\n *\n * ``\n * val depth = DeepRecursiveFunction<Tree?, Int> { t ->\n * if (t == null) 0 else
max(callRecursive(t.left), callRecursive(t.right)) + 1\n * }\n * println(depth(deepTree)) // Ok\n * ``\n *\n * Deep
recursive functions can also mutually call each other using a heap for the stack via\n *
[callRecursive][DeepRecursiveScope.callRecursive] extension. For example, the\n * following pair of mutually
recursive functions computes the number of tree nodes at even depth in the tree.\n *\n * ``\n * val mutualRecursion
= object {\n * val even: DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n * if (t ==
null) 0 else odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1\n * }\n * val odd:\n *
DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n * if (t == null) 0 else
even.callRecursive(t.left)
\n * + even.callRecursive(t.right)\n * }\n * }\n * ``\n *\n * @param [T] the function parameter type.\n * @param [R]
the function result type.\n * @param block the function body.\n
*\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic class DeepRecursiveFunction<T, R>(\n internal val

```

```

block: suspend DeepRecursiveScope<T, R>.(T) -> R\n\n\n **\n * Initiates a call to this deep recursive function,
forming a root of the call tree.\n * This operator should not be used from inside of [DeepRecursiveScope] as it
uses the call stack slot for\n * initial recursive invocation. From inside of [DeepRecursiveScope] use\n *
[callRecursive][DeepRecursiveScope.callRecursive].\n
*\n\n@SinceKotlin("1.4")\n\n@ExperimentalStdlibApi\n\npublic operator fun <T, R> DeepRecursiveFunction<T,
R>.invoke(value: T): R =\n   DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()\n\n\n **\n * A scope
class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to\n * recursively
call this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.\n * \n * @param
[T] function parameter type.\n * @param [R] function result type.\n
*\n\n@RestrictsSuspension\n\n@SinceKotlin("1.4")\n\n@ExperimentalStdlibApi\n\npublic sealed class
DeepRecursiveScope<T, R> {\n   / **\n   * Makes recursive call to this [DeepRecursiveFunction] function putting
the call activation frame on the heap,\n   * as opposed to the actual call stack that is used by a regular recursive
call.\n   * \n   * public abstract suspend fun callRecursive(value: T): R\n   / **\n   * Makes call to the specified
[DeepRecursiveFunction] function putting the call activation frame on the heap,\n   * as opposed to the actual call
stack that is used by a regular call.\n   * \n   * public abstract suspend fun <U, S> DeepRecursiveFunction<U,
S>.callRecursive(value: U): S\n   @Deprecated(\n       level = DeprecationLevel.ERROR,\n       message =\n   \'"invoke' should
not be called from DeepRecursiveScope. \'" +\n       \'"Use 'callRecursive' to do recursion in the heap instead of
the call stack.\'" ,\n       replaceWith = ReplaceWith(\'"this.callRecursive(value)\'" )\n   )\n   @Suppress(\'"UNUSED_PARAMETER\')\n   public operator fun DeepRecursiveFunction<*, *>.invoke(value:
Any?): Nothing =\n       throw UnsupportedOperationException(\'"Should not be called from
DeepRecursiveScope\'" )\n\n\n // ===== Implementation
=====\n\n\n@ExperimentalStdlibApi\n\nprivate typealias DeepRecursiveFunctionBlock = suspend
DeepRecursiveScope<*, *>.(Any?) -> Any?\n\n\n@SharedImmutable\n\nprivate val UNDEFINED_RESULT =
Result.success(COROUTINE_SUSPENDED)\n\n\n@Suppress(\'"UNCHECKED_CAST\')\n\n@ExperimentalStdlibApi\n\nprivate class DeepRecursiveScopeImpl<T, R>(\n   block: suspend DeepRecursiveScope<T, R>.(T) -> R,\n   value: T\n) : DeepRecursiveScope<T, R>(), Continuation<R> {\n   // Active function block\n   private var
function: DeepRecursiveFunctionBlock
= block as DeepRecursiveFunctionBlock\n\n   // Value to call function with\n   private var value: Any? = value\n\n   // Continuation of the current call\n   private var cont: Continuation<Any?>? = this as Continuation<Any?>\n\n   // Completion result (completion of the whole call stack)\n   private var result: Result<Any?> =
UNDEFINED_RESULT\n\n   override val context: CoroutineContext\n   get() = EmptyCoroutineContext\n\n   override
fun resumeWith(result: Result<R>) {\n   this.cont = null\n   this.result = result\n   }\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\n   COROUTINE_SUSPENDED\n   }\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\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)\ncont.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 * Copyright 2010-2022 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\n@file:kotlin.jvm.JvmMultifileClass\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\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\n@SinceKotlin(\"1.5\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun

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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*/\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*/\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*/\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*/\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*/\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*/\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*/\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*/\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

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is closer to negative infinity.
@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Long.floorDiv(other: Short): Long =
    this.floorDiv(other.toLong())
    * Calculates the remainder of flooring division of this value by the other value.
    * 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.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Long.mod(other: Short): Short =
    this.mod(other.toLong()).toShort()
    Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Long.floorDiv(other: Int): Long =
    this.floorDiv(other.toLong())
    * Calculates the remainder of flooring division of this value by the other value.
    * 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.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Long.mod(other: Int): Int =
    this.mod(other.toLong()).toInt()
    Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Long.floorDiv(other: Long): Long {
    var q = this / other
    if (this xor other < 0 && q * other != this) q--
    return q
}
    * Calculates the remainder of flooring division of this value by the other value.
    * 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.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Long.mod(other: Long): Long {
    val r = this % other
    return r + (other and (((r xor other) and (r or -r)) shr 63))
}
    * Calculates the remainder of flooring division of this value by the other value.
    * 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.
    * 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.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Float.mod(other: Float): Float {
    val r = this % other
    return if (r != 0.0.toFloat() && r.sign != other.sign) r + other else r
}
    * Calculates the remainder of flooring division of this value by the other value.
    * 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.
    * 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.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Float.mod(other: Double): Double =
    this.toDouble().mod(other)
    * Calculates the remainder of flooring division of this value by the other value.
    * 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.
    * 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.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Double.mod(other: Float): Double =
    this.mod(other.toDouble())
    * Calculates the remainder of flooring division of this value by the other value.
    * 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.
    * 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.

@SinceKotlin("1.5")@kotlin.internal.InlineOnly
public inline fun Double.mod(other: Double): Double {
    val r = this % other
    return if (r != 0.0 && r.sign != other.sign) r + other else r
}
    * Copyright 2010-2018

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package kotlin
import kotlin.internal.InlineOnly

    * Returns a hash code value for the object or zero if the object is `null`.

@see Any.hashCode
@SinceKotlin("1.3")@InlineOnly
public inline fun Any?.hashCode(): Int =
    this?.hashCode() ?: 0
    * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language

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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\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")\npublic
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 \nVersion components are out of range: $major.$minor.$patch"\n
}\n\n return major.shl(16) + minor.shl(8) + patch\n }\n\n /**\n * Returns the string representation of this
version\n *\n override fun toString(): String = "$major.$minor.$patch"\n\n override fun equals(other:
Any?): Boolean {\n if (this === other) return true\n\n val otherVersion = (other as? KotlinVersion) ?: return
false\n\n\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\n this.major > major ||
(this.major == major &&\n\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\n
this.major > major || (this.major == major &&\n\n (this.minor > minor || this.minor == minor &&\n\n
this.patch >= patch))\n\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\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\n public val CURRENT: KotlinVersion =
KotlinVersionCurrentValue.get()\n }\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\n fun get(): KotlinVersion = KotlinVersion(1, 6, 21) // 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\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
*\n * Represents a value with lazy initialization.\n *\n * To create an instance of [Lazy] use the [lazy] function.\n
*\n *\n\npublic 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`

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otherwise.\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 */\npublic 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 * `val property: String by lazy { initializer }`\n */\n@kotlin.internal.InlineOnly\npublic 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 */\npublic enum class LazyThreadSafetyMode {\n\n
/**\n * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\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 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 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>, 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 @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 {\n override fun isInitialized():
Boolean = true\n override fun toString(): String = value.toString()\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@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("NumbersKt")\npackage kotlin\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 expect fun
Int.countOneBits(): Int\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)\npublic expect fun
Int.countLeadingZeroBits(): Int\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
expect fun Int.countTrailingZeroBits(): Int\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 expect fun
Int.takeHighestOneBit(): Int\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 expect fun
Int.takeLowestOneBit(): Int\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 expect fun

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Int.rotateLeft(bitCount: Int): Int\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 *\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 [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 expect fun Int.rotateRight(bitCount: Int): Int\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 expect fun Long.countOneBits(): Int\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 expect fun Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countTrailingZeroBits(): Int\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@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeHighestOneBit(): Long\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@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeLowestOneBit(): Long\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 * 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
```

```
c\ninline 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\n\ninline 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 * 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 [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 * 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 [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 =\n    (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [Short] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n\ninline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n\ninline fun Short.countLeadingZeroBits(): Int =\n    (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n\ninline fun Short.countTrailingZeroBits():
```

```
Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Short] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n\ninline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\n\ninline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n/**\n * Rotates the binary representation of this [Short] 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 [Short.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)\/npublic fun
Short.rotateLeft(bitCount: Int): Short =\/n (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount
and 15))).toShort()\/n\/n**\/n * Rotates the binary representation of this [Short] 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 [Short.SIZE_BITS] (16) returns the same number, or more
generally\/n * `number.rotateRight(n) == number.rotateRight(n % 16)`\/n
*\/n@SinceKotlin("1.6")\/n@WasExperimental(ExperimentalStdlibApi::class)\/npublic fun
Short.rotateRight(bitCount: Int): Short =\/n (toInt().shl(16 - (bitCount and 15)) or (toInt() and
0xFFFF).ushr(bitCount and 15)).toShort()\/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\/nimport kotlin.internal.RequireKotlin\/nimport
kotlin.internal.RequireKotlinVersionKind\/n\/n@kotlin.internal.InlineOnly\/n@SinceKotlin("1.2")\/n@Suppress("IN
VISIBLE_MEMBER", "INVISIBLE_REFERENCE")\/n@RequireKotlin("1.2.30", level =
DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\/npublic inline fun
<R> suspend(noinline
block: suspend () -> R): suspend () -> R = block\/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("TuplesKt")\/n\/npackage
kotlin\/n\/n**\/n * Represents a generic pair of two values.\/n *\/n * There is no meaning attached to values in this
class, it can be used for any purpose.\/n * Pair exhibits value semantics, i.e. two pairs are equal if both components
are equal.\/n *\/n * 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 *\/npublic data class Pair<out
A, out B>(\/n public val first: A,\/n public val second: B) : Serializable {\/n\/n /**\/n * Returns
string representation of the [Pair] including its [first] and [second] values.\/n *\/n public override fun toString():
String = "$first, $second"\/n}\/n\/n**\/n * Creates a tuple of type [Pair] from this and [that].\/n *\/n * This can be
useful for creating [Map] literals with less noise, for example:\/n * @sample
samples.collections.Maps.instantiation.mapFromPairs\/n *\/npublic infix fun <A, B> A.to(that: B): Pair<A, B> =
Pair(this, that)\/n\/n**\/n * Converts this pair into a list.\/n * @sample samples.misc.Tuples.pairToList\/n *\/npublic
fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\/n\/n**\/n * Represents a triad of values\/n *\/n * There is
no meaning attached to values in this class, it can be used for any purpose.\/n * Triple exhibits value semantics, i.e.
two triples are equal if all three components are equal.\/n * An example of decomposing it into values:\/n * @sample
samples.misc.Tuples.tripleDestructuring\/n *\/n * @param A type of the first value.\/n * @param B type
of the second value.\/n * @param C type of the third value.\/n * @property first First value.\/n * @property second
Second value.\/n * @property third Third value.\/n *\/npublic data class Triple<out A, out B, out C>(\/n public val
first: A,\/n public val second: B,\/n public val third: C) : Serializable {\/n\/n /**\/n * Returns string
representation of the [Triple] including its [first], [second] and [third] values.\/n *\/n public override fun
toString(): String = "$first, $second, $third"\/n}\/n\/n**\/n * Converts this triple into a list.\/n * @sample
samples.misc.Tuples.tripleToList\/n *\/npublic fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second,
third)\/n", /*\/n * Copyright 2010-2022 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 `UInt`.\/n
*\/n@SinceKotlin("1.5")\/n@WasExperimental(ExperimentalUnsignedTypes::class)\/npublic 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   * A progression of values of type `UInt`.\n
*/\n  @SinceKotlin("1.5")\n  @WasExperimental(ExperimentalUnsignedTypes::class)\n  public open class
UIntProgression\n\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      \n      * The progression starts with the [rangeStart] value and goes
toward the [rangeEnd] value not excluding it, with the specified [step].\n      \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      */\n      public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression =
UIntProgression(rangeStart, rangeEnd, step)\n    }\n\n    /**\n     * An iterator over a progression of values of type
`UInt`.\n     \n     * @property step the number by which the value is incremented on each step.\n     */\n    @SinceKotlin("1.3")\n    @Suppress("DEPRECATION_ERROR")\n    private 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.toInt() // 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 2010-2022 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    /** 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    @n@SinceKotlin("1.3")\n    public abstract class UByteIterator : Iterator<UByte> {\n
    final override
fun next() = nextUByte()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun
nextUByte(): UByte\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    @n@SinceKotlin("1.3")\n    public abstract class UShortIterator : Iterator<UShort> {\n
    final override fun next() = nextUShort()\n\n    /** Returns the next value in the sequence without boxing. */\n

```

```

public abstract fun nextUShort(): UShort\n}\n\n** An iterator over a sequence of values of type `UInt`.
*\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    /** Returns the next value in the sequence without boxing. */\n    public
abstract fun nextUInt(): UInt\n}\n\n** An
iterator over a sequence of values of type `ULong`. *\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    public abstract fun nextULong(): ULong\n}\n\n", /*\n * Copyright 2010-2022
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 `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    /** \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        /** An empty range of values of type ULong. */\n        public val
EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)\n    }\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("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: 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) "\$first..\$last
step\n\n    companion object {\n        /**\n        * Creates
ULongProgression 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 `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 */\n\npackage kotlin.math\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun min(a: UInt, b: UInt): UInt {\n  return minOf(a, b)\n}\n"/*\n * Returns the smaller of two
values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun min(a: ULong, b: ULong): ULong {\n  return minOf(a,
b)\n}\n"/*\n * Returns the greater of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun max(a: UInt, b: UInt): UInt {\n  return maxOf(a, b)\n}\n"/*\n * Returns the greater of two
values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun max(a: ULong, b: ULong): ULong {\n  return maxOf(a, b)\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.JvmName("UNumbersKt")\npackage kotlin\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\npublic inline fun UInt.countOneBits():
Int = toInt().countOneBits()\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\npublic inline fun UInt.countLeadingZeroBits(): Int =
toInt().countLeadingZeroBits()\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\npublic inline fun UInt.countTrailingZeroBits(): Int =
toInt().countTrailingZeroBits()\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\npublic inline fun UInt.takeHighestOneBit(): UInt =
toInt().takeHighestOneBit().toUInt()\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\npublic inline fun UInt.takeLowestOneBit(): UInt =
toInt().takeLowestOneBit().toUInt()\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\npublic 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 * \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 [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\npublic
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\npublic 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\npublic 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 * 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 *\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 [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 *\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
[UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 16)`\n *\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount:
Int): UShort = toShort().rotateRight(bitCount).toUShort()\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@package kotlin.internal\n\n// (a - b) mod c\nprivate fun
differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac -
bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n    val ac = a %
c\n    val bc
= b % c\n    return if (ac >= bc) ac - bc else ac - bc + 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 *\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <=
end`,\n *\n * - or `step < 0` and `start >= end`.\n *\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\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step:
Int): UInt = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n
step <
0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\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 *\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <=
end`,\n *\n * - or `step < 0` and `start >= end`.\n *\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

```

```

*^@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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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.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].
 * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public
fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))

/**
 * Parses the
string as a signed [UByte] number and returns the result.
 * @throws NumberFormatException if the string is not a
valid representation of a number.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun String.toUByte():
UByte = toUByteOrNull() ?: numberFormatException(this)

/**
 * Parses the string as a signed [UByte] number and
returns the result.
 * @throws NumberFormatException if the string is not a
valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatException(this)

/**
 * Parses the
string as a [UShort] number and
returns the result.
 * @throws NumberFormatException if the string is not a
valid representation of a number.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun String.toUShort():
UShort = toUShortOrNull() ?: numberFormatException(this)

/**
 * Parses the string as a [UShort] number and
returns the result.
 * @throws NumberFormatException if the string is not a
valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun
String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatException(this)

/**
 * Parses the
string as an [UInt] number and returns the result.
 * @throws NumberFormatException if the string is not a
valid
representation of a number.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun String.toUInt():
UInt
= toUIntOrNull() ?: numberFormatException(this)

/**
 * Parses the string as an [UInt] number and returns the
result.
 * @throws NumberFormatException if the string is not a
valid representation of a number.
 * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun

```

```

String.toInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatException(this)\n\n/**\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)\npublic fun String.toULong():
ULong = toULongOrNull() ?: numberFormatException(this)\n\n/**\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)\npublic fun
String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatException(this)\n\n\n\n\n\n/**\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 */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\n\n/**\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 */\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.toUByteOrNull(radix: Int): UByte? {\n    val int = this.toIntOrNull(radix) ?: return null\n    if (int >
UByte.MAX_VALUE) return null\n    return int.toUByte()\n}\n\n/**\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)\npublic fun
String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n\n/**\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 * @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.toIntOrNull(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.toIntOrNull(): 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.toIntOrNull(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    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    var limitBeforeMul = limitForMaxRadix\n    val uradix = radix.toInt()\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        result *= uradix\n\n        val beforeAdding = result\n        result += digit.toInt()\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    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    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\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        result *= uradix\n        val beforeAdding = result\n        result +=
digit.toUInt()\n        if (result < beforeAdding) return null // overflow has happened\n    }\n    return
result\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:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget.\n\nimport kotlin.internal.RequireKotlin\n\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the
experimental unsigned types, including those types themselves.\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 `-opt-in=kotlin.ExperimentalUnsignedTypes`
compiler option is given.\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@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\n// constants, can't use them from nativeMath as they are not constants there\n\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\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 * 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 * 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 * 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 * 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 * 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 * Special cases:\n * - `atan(NaN)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic

```

expect fun atan(x: Double): Double\n\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 $-\text{PI}$ to PI radians.\n * Special cases:\n * - $\text{atan2}(0.0, 0.0)$ is 0.0 \n * - $\text{atan2}(0.0, x)$ is 0.0 for $x > 0$ and PI for $x < 0$ \n * - $\text{atan2}(-0.0, x)$ is -0.0 for $x > 0$ and $-\text{PI}$ for $x < 0$ \n * - $\text{atan2}(y, +\text{Inf})$ is 0.0 for $0 < y < +\text{Inf}$ and -0.0 for $-\text{Inf} < y < 0$ \n * - $\text{atan2}(y, -\text{Inf})$ is PI for $0 < y < +\text{Inf}$ and $-\text{PI}$ for $-\text{Inf} < y < 0$ \n * - $\text{atan2}(y, 0.0)$ is $\text{PI}/2$ for $y > 0$ and $-\text{PI}/2$ for $y < 0$ \n * - $\text{atan2}(+\text{Inf}, x)$ is $\text{PI}/2$ for finite x \n * - $\text{atan2}(-\text{Inf}, x)$ is $-\text{PI}/2$ for finite x \n * - $\text{atan2}(\text{NaN}, x)$ and $\text{atan2}(y, \text{NaN})$ is NaN \n */\n\npublic expect fun atan2(y: Double, x: Double): Double\n\n/**\n * Computes the hyperbolic sine of the value $[x]$.\n * Special cases:\n * - $\text{sinh}(\text{NaN})$ is NaN \n * - $\text{sinh}(+\text{Inf})$ is $+\text{Inf}$ \n * - $\text{sinh}(-\text{Inf})$ is $-\text{Inf}$ \n */\n\npublic expect fun sinh(x: Double): Double\n\n/**\n * Computes the hyperbolic cosine of the value $[x]$.\n * Special cases:\n * - $\text{cosh}(\text{NaN})$ is NaN \n * - $\text{cosh}(+\text{Inf}-\text{Inf})$ is $+\text{Inf}$ \n */\n\npublic expect fun cosh(x: Double): Double\n\n/**\n * Computes the hyperbolic tangent of the value $[x]$.\n * Special cases:\n * - $\text{tanh}(\text{NaN})$ is NaN \n * - $\text{tanh}(+\text{Inf})$ is 1.0 \n * - $\text{tanh}(-\text{Inf})$ is -1.0 \n */\n\npublic expect fun tanh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic sine of the value $[x]$.\n * The returned value is y such that $\text{sinh}(y) == x$.\n * Special cases:\n * - $\text{asinh}(\text{NaN})$ is NaN \n * - $\text{asinh}(+\text{Inf})$ is $+\text{Inf}$ \n * - $\text{asinh}(-\text{Inf})$ is $-\text{Inf}$ \n */\n\npublic expect fun asinh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic cosine of the value $[x]$.\n * The returned value is positive y such that $\text{cosh}(y) == x$.\n * Special cases:\n * - $\text{acosh}(\text{NaN})$ is NaN \n * - $\text{acosh}(x)$ is NaN when $x < 1$ \n * - $\text{acosh}(+\text{Inf})$ is $+\text{Inf}$ \n */\n\npublic expect fun acosh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic tangent of the value $[x]$.\n * The returned value is y such that $\text{tanh}(y) == x$.\n * Special cases:\n * - $\text{atanh}(\text{NaN})$ is NaN \n * - $\text{atanh}(x)$ is NaN when $x > 1$ or $x < -1$ \n * - $\text{atanh}(1.0)$ is $+\text{Inf}$ \n * - $\text{atanh}(-1.0)$ is $-\text{Inf}$ \n */\n\npublic expect fun atanh(x: Double): Double\n\n/**\n * Computes $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow.\n * Special cases:\n * - returns $+\text{Inf}$ if any of arguments is infinite\n * - returns NaN if any of arguments is NaN and the other is not infinite\n */\n\npublic expect fun hypot(x: Double, y: Double): Double\n\n/**\n * Computes the positive square root of the value $[x]$.\n * Special cases:\n * - $\text{sqrt}(x)$ is NaN when $x < 0$ or x is NaN \n */\n\npublic expect fun sqrt(x: Double): Double\n\n/**\n * Computes Euler's number e raised to the power of the value $[x]$.\n * Special cases:\n * - $\text{exp}(\text{NaN})$ is NaN \n * - $\text{exp}(+\text{Inf})$ is $+\text{Inf}$ \n * - $\text{exp}(-\text{Inf})$ is 0.0 \n */\n\npublic expect fun exp(x: Double): Double\n\n/**\n * Computes $\text{exp}(x) - 1$.\n * This function can be implemented to produce more precise result for $[x]$ near zero.\n * Special cases:\n * - $\text{expm1}(\text{NaN})$ is NaN \n * - $\text{expm1}(+\text{Inf})$ is $+\text{Inf}$ \n * - $\text{expm1}(-\text{Inf})$ is -1.0 \n * @see [exp] function.\n */\n\npublic expect fun expm1(x: Double): Double\n\n/**\n * Computes the logarithm of the value $[x]$ to the given $[base]$.\n * Special cases:\n * - $\text{log}(x, b)$ is NaN if either x or b are NaN \n * - $\text{log}(x, b)$ is NaN when $x < 0$ or $b \leq 0$ or $b == 1.0$ \n * - $\text{log}(+\text{Inf}, +\text{Inf})$ is NaN \n * - $\text{log}(+\text{Inf}, b)$ is $+\text{Inf}$ for $b > 1$ and $-\text{Inf}$ for $b < 1$ \n * - $\text{log}(0.0, b)$ is $-\text{Inf}$ for $b > 1$ and $+\text{Inf}$ for $b > 1$ \n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n\npublic expect fun log(x: Double, base: Double): Double\n\n/**\n * Computes the natural logarithm (base 'E') of the value $[x]$.\n * Special cases:\n * - $\text{ln}(\text{NaN})$ is NaN \n * - $\text{ln}(x)$ is NaN when $x < 0.0$ \n * - $\text{ln}(+\text{Inf})$ is $+\text{Inf}$ \n * - $\text{ln}(0.0)$ is $-\text{Inf}$ \n */\n\npublic expect fun ln(x: Double): Double\n\n/**\n * Computes the common logarithm (base 10) of the value $[x]$.\n * @see [ln] function for special cases.\n */\n\npublic expect fun log10(x: Double): Double\n\n/**\n * Computes the binary logarithm (base 2) of the value $[x]$.\n * @see [ln] function for special cases.\n */\n\npublic expect fun log2(x: Double): Double\n\n/**\n * Computes $\text{ln}(x + 1)$.\n * This function can be implemented to produce more precise result for $[x]$ near zero.\n * Special cases:\n * - $\text{ln1p}(\text{NaN})$ is NaN \n * - $\text{ln1p}(x)$ is NaN where $x < -1.0$ \n * - $\text{ln1p}(-1.0)$ is $-\text{Inf}$ \n * - $\text{ln1p}(+\text{Inf})$ is $+\text{Inf}$ \n * @see [ln] function\n * @see

[`expm1`] function\n *
`@SinceKotlin("1.2")\npublic expect fun ln1p(x: Double): Double\n\n` * Rounds the given value [x] to an integer towards positive infinity.\n *
`@return` the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n *
`Special cases:`\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n *
`@SinceKotlin("1.2")\npublic expect fun ceil(x: Double): Double\n\n` * Rounds the given value [x] to an integer towards negative infinity.\n *
`@return` the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *
`Special cases:`\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n *
`@SinceKotlin("1.2")\npublic expect fun floor(x: Double): Double\n\n` * Rounds the given value [x] to an integer towards zero.\n *
`@return` the value [x] having its fractional part truncated.\n *
`Special cases:`\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n *
`@SinceKotlin("1.2")\npublic expect fun truncate(x: Double): Double\n\n` * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *
`Special cases:`\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n *
`@SinceKotlin("1.2")\npublic expect fun round(x: Double): Double\n\n` * Returns the absolute value of the given value [x].\n *
`Special cases:`\n * - `abs(NaN)` is `NaN`\n *
`@see` `absoluteValue` extension property for [Double]\n *
`@SinceKotlin("1.2")\npublic expect fun abs(x: Double): Double\n\n` * Returns the sign of the given value [x]:\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 * - `sign(NaN)` is `NaN`\n *
`@SinceKotlin("1.2")\npublic expect fun sign(x: Double): Double\n\n` * Returns the smaller of two values.\n *
`If` either value is `NaN`, then the result is `NaN`.\n *
`@SinceKotlin("1.2")\npublic expect fun min(a: Double, b: Double): Double\n\n` * Returns the greater of two values.\n *
`If` either value is `NaN`, then the result is `NaN`.\n *
`@SinceKotlin("1.2")\npublic expect fun max(a: Double, b: Double): Double\n\n` extensions\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 *
`@SinceKotlin("1.2")\npublic expect fun Double.pow(x: Double): Double\n\n` *
`Raises` this value to the integer power [n].\n *
`See` the other overload of [pow] for details.\n *
`@SinceKotlin("1.2")\npublic expect fun Double.pow(n: Int): Double\n\n` * Returns the absolute value of this value.\n *
`Special cases:`\n * - `NaN.absoluteValue` is `NaN`\n *
`@see` `abs` function\n *
`@SinceKotlin("1.2")\npublic expect val Double.absoluteValue: Double\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 *
`@SinceKotlin("1.2")\npublic expect val Double.sign: Double\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 *
`@SinceKotlin("1.2")\npublic expect fun Double.withSign(sign: Double): Double\n\n` * Returns this value with the sign bit same as of the [sign] value.\n *
`@SinceKotlin("1.2")\npublic expect fun Double.withSign(sign: Int): Double\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 *
`@SinceKotlin("1.2")\npublic expect val Double.ulp: Double\n\n` * Returns the [Double] value nearest to this value in direction of positive infinity.\n *
`@SinceKotlin("1.2")\npublic expect fun Double.nextUp(): Double\n\n` * Returns the [Double] value nearest to this value in direction of negative infinity.\n *
`@SinceKotlin("1.2")\npublic expect fun Double.nextDown(): Double\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 *
`@SinceKotlin("1.2")\npublic expect fun Double.nextTowards(to: Double): Double\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` when `x < Int.MIN_VALUE` when `x < Int.MIN_VALUE` @throws `IllegalArgumentException` when this value is `NaN`

`Double.roundToInt(): Int` Rounds this [Double] value to the nearest integer and converts the result to [Long]. Ties are rounded towards positive infinity. Special cases: `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`

`x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE` @throws `IllegalArgumentException` when this value is `NaN`

`Double.roundToLong(): Long` endregion region ===== Float Math
===== Computes the sine of the angle [x] given in radians. Special cases: `sin(NaN|+Inf|-Inf)` is `NaN`

`sin(x: Float): Float` Computes the cosine of the angle [x] given in radians. Special cases: `cos(NaN|+Inf|-Inf)` is `NaN`

`cos(x: Float): Float` Computes the tangent of the angle [x] given in radians. Special cases: `tan(NaN|+Inf|-Inf)` is `NaN`

`tan(x: Float): Float` Computes the arc sine of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians. Special cases: `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`

`asin(x: Float): Float` Computes the arc cosine of the value [x]; the returned value is an angle in the range from `0.0` to `PI` radians. Special cases: `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`

`acos(x: Float): Float` Computes the arc tangent of the value [x]; the returned value is an angle in the range from `-PI/2` to `PI/2` radians. Special cases: `atan(NaN)` is `NaN`

`atan(x: Float): Float` 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:

- `atan2(0.0, 0.0)` is `0.0`
- `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`
- `atan2(-0.0, x)` is `0.0` for `x > 0` and `-PI` for `x < 0`
- `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`
- `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`
- `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`
- `atan2(+Inf, x)` is `PI/2` for finite `x`
- `atan2(-Inf, x)` is `-PI/2` for finite `x`
- `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`

`atan2(y: Float, x: Float): Float` Computes the hyperbolic sine of the value [x]. Special cases: `sinh(NaN)` is `NaN`

`sinh(+Inf)` is `+Inf`

`sinh(-Inf)` is `-Inf`

`sinh(x: Float): Float` Computes the hyperbolic cosine of the value [x]. Special cases: `cosh(NaN)` is `NaN`

`cosh(+Inf|-Inf)` is `+Inf`

`cosh(x: Float): Float` Computes the hyperbolic tangent of the value [x]. Special cases: `tanh(NaN)` is `NaN`

`tanh(+Inf)` is `1.0`

`tanh(-Inf)` is `-1.0`

`tanh(x: Float): Float` 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`

`asinh(x: Float): Float` 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`

`acosh(x: Float): Float` Computes the inverse hyperbolic tangent of the value [x]. The returned value is `y` such that `tanh(y) == x`. Special cases: `atanh(NaN)` is `NaN`

`atanh(x)` is `NaN` when `x > 1` or `x < -1`

`atanh(1.0)` is `+Inf`

`atanh(-1.0)` is `-Inf`

`atanh(x: Float): Float` 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

`hypot(x: Float, y: Float): Float` Computes the

positive square root of the value [x].
Special cases:
`sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`

public expect fun `sqrt(x: Float): Float`
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`

public expect fun `exp(x: Float): Float`
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.

public expect fun `expm1(x: Float): Float`
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].

public expect fun `log(x: Float, base: Float): Float`
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`

public expect fun `ln(x: Float): Float`
Computes the common logarithm (base 10) of the value [x].
@see [ln] function for special cases.

public expect fun `log10(x: Float): Float`
Computes the binary logarithm (base 2) of the value [x].
@see [ln] function for special cases.

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(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

public expect fun `ln1p(x: Float): Float`
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:
`ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

public expect fun `ceil(x: Float): Float`
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:
`floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

public expect fun `floor(x: Float): Float`
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.

public expect fun `truncate(x: Float): Float`
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.

public expect fun `round(x: Float): Float`
Returns the absolute value of the given value [x].
Special cases:
`abs(NaN)` is `NaN`
@see absoluteValue extension property for [Float]

public expect fun `abs(x: Float): Float`
Returns the sign of the given value [x]:
`-1.0` if the value is negative,
`0.0` if the value is zero,
`1.0` if the value is positive
Special case:
`sign(NaN)` is `NaN`

public expect fun `sign(x: Float): Float`
Returns the smaller of two values.
If either value is `NaN`, then the result is `NaN`.

public expect fun `min(a: Float, b: Float): Float`
Returns the greater of two values.
If either value is `NaN`, then the result is `NaN`.

public expect fun `max(a: Float, b: Float): Float`
Raises this value to the power [x].
Special cases:
`b.pow(0.0)` is `1.0`
`b.pow(1.0) == b`
`b.pow(NaN)` is `NaN`
`NaN.pow(x)` is `NaN` for `x != 0.0`
`b.pow(Inf)` is `NaN` for `abs(b) == 1.0`
`b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer

public expect fun `Float.pow(x: Float): Float`
Raises this value to the integer power [n].
See the other overload of [pow] for details.

public expect fun `Float.pow(n: Int): Float`

Int): Float\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n *\n@SinceKotlin("1.2")\npublic expect val Float.absoluteValue: Float\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 *\n * Special case:\n * - `NaN.sign` is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect val Float.sign: Float\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@SinceKotlin("1.2")\npublic expect fun Float.withSign(sign: Float): Float\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n@SinceKotlin("1.2")\npublic expect fun Float.withSign(sign: Int): Float\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 * 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 expect fun Float.roundToInt(): Int\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 * 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 expect fun Float.roundToLong(): Long\n\n\n// endregion\n\n// region\n\n==== Integer Math =====\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@SinceKotlin("1.2")\npublic expect fun abs(n: Int): Int\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun min(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun max(a: Int, b: Int): Int\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")\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// endregion\n\n// region\n\n==== Long Math =====\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 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 *\n * Special cases:\n * - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\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// endregion\n\nendregion\n"],"names":["mappings": "AAWC,CAXA,yB;EACG,IAAI,OAAO,MAAO,KAAI,UAAW,IAAG,MAAM,IAA1C,C;IACI,MAAM,CAAC,QAAD,EAAW,CAAC,SAAD,CAAX,EAAsB,OAAxB,C;SAEL,IAAI,OAAO,AAQ,KAAI,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;IAGP,IAAI,OAAQ,GAAE,E;IACd,OAAO,CAAC,IAAI,OAAL,C;;CAEd,CAAC,IAAD,EAAs,kB;EACJ,IAAI,IAAI,M;ECPZ,MAAM,eAAgB,GAAE,a;IACpB,OA Aod,CAA5C,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAE,YAAW,SAAW,KAAg,CAAC,OAAQ,KAAI,c;G ;EAGxE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,SAAU,IAAG,CAAC,OAAQ,KAAI,c;G;EAGID,M AAM,aAAc,GAAE,a;IACIB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,Y AAW,WAAy,IAAG,CAAC,OAAQ,KAAI,W;G;EAGpD,MAAM,WAAy,GAAE,a;IAChB,OAAO,CAAE,YAAW, U;G;EAGxB,MAAM,aAAc,GAAE,a;IACIB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,cAAe,GAAE,a;IACnB,O AAO,CAAE,YAAW,Y;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IA

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IAAI,aAAJ,C;YACH,aP0/UuC,gB;YAA5B,Woz/UX,aPy/UgC,GOz/UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP
s/UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAIQT,OAoQO,W;O;KA7QX,C;sFAYA,yB;MAAA,wE;MAoQA,+D;M
ApQA,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;YA
A5B,Wo1gVX,aP0gVgC,GO1gVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPugVA,iB;UACA,IAAK,WAAI,OAA
J,C;;QAvQT,OAYQO,W;O;KAIRX,C;sFAYA,yB;MAAA,wE;MAyQA,oC;MAAA,+D;MAAA,gC;MAzQA,yC;QA
SW,kBAAU,oB;QAYQD,Q;QAAhB,iD;UAAgB,cAAhB,0B;UACI,UA1QoD,WA0Q1C,CAAY,oBAAZ,C;UO5hV
P,U;UADP,YP8hVe,Wo9hVH,Wp8hVwB,GO9hVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4hVuC,gB;YAA5B,Wo3
hVX,aP2hVgC,GO3hVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwhVA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QA5
QT,OA8QO,W;O;KAvRX,C;sFAYA,yB;MAAA,wE;MA8QA,+D;MA9QA,yD;QAUW,kBAAU,oB;QA8QD,Q;Q
AAhB,iD;UAAgB,cAAhB,e;UACI,UA/QiD,WA+QvC,CAAY,OAAZ,C;UO9iVP,U;UADP,YPgjVe,WohjVH,Wp
gjVwB,GOhjVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8iVuC,gB;YAA5B,Wo7iVX,aP6iVgC,GO7iVhC,EAAS,MA
AT,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;MANRA,yD;QAUW,kBAAU,oB;QAmRD,Q;QAAhB,iD;UAA
gB,cAAhB,e;UACI,UApRiD,WAoRvC,CAAY,OAAZ,C;UOhkVP,U;UADP,YPkkVe,WoIkVH,WpkkVwB,GOIk
VxB,C;UACL,IAAI,aAAJ,C;YACH,aPgkVuC,gB;YAA5B,Wo/jVX,aP+jVgC,GO/jVhC,EAAS,MAAT,C;YACA,e

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,WF/8DG,MAAO,KE+8DO,QF/8DP,EE+8DiB,CF/8DjB,C;;QEi9Dd,OAAO,Q;O;KAIBX,C;+FAqBA,yB;MFv+D

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gB,yB;UApEK,U;UAAA,wBAoEQ,OApER,W;YAA sC,6B;;;QAC3D,OAAO,W;O;KANX,C;kFASA,6C;MAKiB,
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,OAAO,K;;MACtD,OAAO,I;K;IAGX,2B;MAMI,OAAO,CAAC,mB;K;+EAGZ,gC;MAOoB,Q;MADhB,IAAI,mB
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GX,6B;MAKoB,Q;MAAA,OAAA,SjBkKoE,QAAQ,W;MiBIK5F,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,
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AztFW,CAAb,W;UAAd,OAAd,cAAAd,C;YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YACd,IA9nBc,SA8nBV,CAA
U,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QahoBP,wB;O;KATJ,C;yFAYA,yB;MAgo
BA,+C;MA0tFI,0D;MA11GJ,uC;QASW,qB;;UAgoBO,Q;UAAA,OAAa,SAItFX,YAAR,iBAAQ,CAjtFW,CAAb,
W;UAAd,OAAd,cAAAd,C;YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YACd,IAIoBc,SAkoBV,CAAU,OAAV,CAAJ
,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QApoBP,wB;O;KATJ,C;yFAYA,yB;MAooBA,+C;MAktFI,
0D;MAT1GJ,uC;QASW,qB;;UAooBO,Q;UAAA,OAAa,SAysFX,YAAR,iBAAQ,CAZsFW,CAAb,W;UAAd,OAAd,
cAAAd,C;YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YACd,IAtoBc,SAsoBV,CAAU,OAAV,CAAJ,C;cAAwB,oB
AAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QAxoBP,wB;O;KATJ,C;yFAYA,yB;MAwoBA,+C;MA0sFI,0D;MA11GJ,uC
;QASW,qB;;UAwoBO,Q;UAAA,OAAa,SAIsFX,YAAR,iBAAQ,CAjsFW,CAAb,W;UAAd,OAAd,cAAAd,C;YAAc,
uB;YACV,cAAc,sBAAK,KAAL,C;YACd,IAtoBc,SAoBV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB
;;;UAE5B,oBAAO,I;;;QA5oBP,wB;O;KATJ,C;mFAYA,yB;MAAA,8C;MnCPHA,6B;MmCoHA,4B;QAQI,OnCIH
mC,cmCkHpB,MAAR,iBAAQ,CnCIIHoB,C;O;KmC0GvC,C;mFAWA,yB;MAAA,8C;MnBhHA,+B;MmBgHA,4B;
QAQI,OnB9GsC,emB8GvB,MAAR,iBAAQ,CnB9GuB,C;O;KmBsG1C,C;mFAWA,yB;MAAA,8C;MPCxLA,+B;
MoCwLA,4B;QAQI,OpCtLsC,eoCsLvB,MAAR,iBAAQ,CpCtLuB,C;O;KoC8K1C,C;mFAWA,yB;MAAA,8C;Ml
CtLA,iC;MkCsLA,4B;QAQI,OICpLyC,gBkCoL1B,MAAR,iBAAQ,CICpL0B,C;O;KkC4K7C,C;mFAWA,yB;MA
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AJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;
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AO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,
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,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDA
AvB,C;O;KATV,C;IAAY,mC;MAMI,OAAY,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;IAGpC,mC;MA
MI,OAAY,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;IAGpC,mC;MAMI,OAAY,mBAAJ,GAAe,IAAf,G

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O,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,C
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,C;IAUA,wC;MAQe,oBAAS,C;MAAT,S;QAAC,gBAknGT,gBAAR,iBAAQ,C;MAlnGhB,OAAO,OAAc,sBAAI,
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C5ZA,6B;MmC4ZA,0BAOgC,yB;QnCnahC,6B;emCmagC,6B;UAAA,qB;YAAE,yBnCzZK,cmCyZK,EnCzZL,C
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0B;O;KAPJ,C;IGAUA,yB;MAAA,sC;MnBvZA,+B;MmBuZA,0BAOgC,yB;QnB9ZhC,+B;emB8ZgC,6B;UAAA,q
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O,K;cAAP,wB;;;UAGR,sBAAO,E;;;QsCn1BP,0B;O;KAPJ,C;IGAUA,yB;MAAA,sC;MpC9dA,+B;MoC8dA,0BA
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hC,uC;QAOmB,kBAAR,iB;QAAQ,uB;UtCgyBf,0D;YACI,IsCjyB0B,UpC3dQ,eF4vCpB,YAAK,KAAL,CE5vCo
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dC,CkCwdX,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;UtCkyBf,0D;YACI,IsCnyB0B,UICxd
W,gBJ2vCvB,YAAK,KAAL,CI3vCuB,CkCwdX,CtCmyB1B,C;cACI,sBAAO,K;cAAP,wB;;;UAGR,sBAAO,E;;;Q
sCvyBP,0B;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCm5BA,0D;MAAA,+C;MGv1CA,6B;MmCocA,yBAO+B,yB;Q
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BzB,C;cACI,qBAAO,K;cAAP,uB;;;UAGR,qBAAO,E;;;QsCv5BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCu2B
A,0D;MAAA,+C;ME72CA,+B;MoCsgBA,yBAO+B,yB;QpC7gB/B,+B;eoC6gB+B,6B;UAAA,qB;YAAE,yBpCng
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B;;;UAGR,qBAAO,E;;;QsC32BP,yB;O;KAPJ,C;iFAUA,yB;MAAA,4C;MnC5eA,6B;MmC4eA,4B;QAWI,OnC7e
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I,OnB5esC,emB4evB,KAAR,iBAAQ,CnB5euB,C;O;KmBie1C,C;iFAcA,yB;MAAA,4C;MpCtjBA,+B;MoCsJBA,4
B;QAWI,OpCvjBsC,eoCujBvB,KAAR,iBAAQ,CpCvjBuB,C;O;KoC4iB1C,C;iFAcA,yB;MAAA,4C;MICvjBA,iC;
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AwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KafV,C;iFAkBA,yB;MAAA,+C;MAAA,iE;MAo3FI,0
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Ad,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,
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AC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCopBO,UwCppBA,gBxCopBR,QAAQ,EwCppBoB,O5EkIA,K
oCkhBpB,C;K;yDwClpBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCu4
BO,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;MAAkC,OAAA,gBAAY,U;K;sDA
C9C,mB;MAAkD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC9D,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAYB,SA
AZB,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,KkCihBtB,C;K;yDwCjoBX,
mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCs3BO,cwCt3BA,gBxCs3BR,Q
AAQ,EwCt3BwB,O1E6GF,KkCywBtB,C;K;;IwC54BnB,8B;MAMI,4C;K;ICtIJ,qC;MAII,SAAS,SID+BiC,I;MkD9
B1C,OAAa,CAAN,gBAAc,EAAd,KACU,EAAN,gBAAc,EADIB,KAEL,OAAM,GAFV,KAGI,KAAK,IAAL,KAC
C,OAAM,IAAN,KACS,IAAN,gBAAc,IADjB,KAEG,OAAM,IAFT,IAGG,OAAM,IAHT,IAIG,OAAM,IAJT,IAK
G,OAAM,IALT,IAMG,OAAM,KAPV,CAHJ,C;K;;;mCCTP,gB;;K;;ICAJ,wB;K;;IAIA,wB;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;;IAMCa,+B;K;;ICvLA,oB;K;;IAIA,wB;K;;oF7DLA,qB;
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GI,OAAsB,UAAy,QAAvB,KAAmC,SAA9C,GACe,UAAy,UAD3B,GAGI,gBAAgB,UAAhB,C;K;IAGR,qC;MA
EI,YoC1B2C,E;MpC2B3C,eAAe,UAAW,W;MAC1B,OAAO,QAAS,UAAhB,C;QACU,KAAy,MAAK,QAAS,OA
Ad,C;MACTB,OAAO,K;K;IAGX,8C;MAQc,Q;MANV,IAAI,KAAM,OAAN,GAAa,UAAW,KAA5B,C;QACI,OA
AO,gBAAgB,UAAhB,C;;MAEX,eAAe,UAAW,W;MAC1B,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,MA
AM,YAAN,EAAM,oBAAN,UAAiB,QAAS,O;;MAE9B,IAAI,QAAQ,KAAM,OAAlB,C;QACI,MAAM,KAAN,IA
Ae,I;;MAEnB,OAAO,K;K;IAIX,yB;MAG6C,sBAAY,OAaz,E;K;wGAE7C,yB;MAAA,+D;MAAA,gC;QAI0B,gB
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II,qBAAqB,QAArB,C;QAC8B,gBAAvB,eAAa,QAAb,C;QAA6B,aJGpC,W;QIHA,OJIO,SIJ4C,Q;O;KALvD,C;IA
SA,wB;MAG2C,oBAAU,OAAV,E;K;sGAE3C,yB;MAAA,uE;MAAA,gC;QAI8B,gBAAnB,oB;QAAyB,aJvHc,W;
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,wE;MAAA,gC;QAIiC,gBAAtB,oB;QAA4B,aJ/BnC,W;QI+BA,OJ9BO,SI8B2C,Q;O;KAJtD,C;uGAOA,yB;MAA
A,uE;MAAA,0C;QAIyC,gBAA9B,mBAAoB,QAApB,C;QAAoC,aJtC3C,W;QIsCA,OJrCO,SIqCmD,Q;O;KAJ9D,
C;IAQA,mC;MAOqB,Q;MAAA,kC;MAAjB,iBAAc,CAAd,yB;QACI,sBAAK,KAAL,EAAC,KAAd,C;;K;IAIR,+B;
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AQI,gBAAgB,SAAhB,EAAsB,cAAtB,C;K;IAGJ,2C;MAQI,gBAAgB,SAAhB,EAAsB,UAAtB,C;K;IAGJ,2C;MA
CI,IAAI,IAAK,KAAL,IAAa,CAAjB,C;QAAoB,M;MAEpB,YAAY,YAAY,IAAZ,C;MACZ,gBAAc,KAAd,EAaq
B,UAArB,C;MAEA,aAAU,CAAV,MAAkB,KAAM,OAAXB,M;QACI,iBAAK,CAAL,EAU,MAAM,CAAN,CA
AV,C;;K;IAIR,uC;MACI,OAAO,gBAAkB,IAAlB,O;K;IAGX,iF;MAII,oCAAA,2BAAkB,UAAIB,EAAsB,QAA9B
,EAAwC,MAAO,OAA/C,C;MACb,gBAAgB,WAAW,UAAx,I;MACHb,oCAAA,2BAAkB,iBAAIB,EAaqC,oBAA
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AO,MAAP,CAA/D,C;QACI,eAAsB,MAAY,UAAS,UAAT,EAaqB,QAArB,C;QACtB,WAAy,KAAI,QAAJ,EA
Ac,iBAAd,C;;QAExB,IAAI,WAAW,WAAx,IAA0B,qBAAqB,UAAAnD,C;UACI,iBAAc,CAAd,UAAsB,SAAtB,U;Y
ACI,YAAY,oBAAoB,KAApB,IAAZ,IAAyC,OAAO,aAAa,KAAb,IAAP,C;;;UAG7C,mBAAc,YAAY,CAAZ,IAA
d,aAAmC,CAAnC,Y;YACI,YAAY,oBAAoB,OAAPB,IAAZ,IAAyC,OAAO,aAAa,OAAb,IAAP,C;;;K;8GAMzD,

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D,wC;MPzNI,IAAI,EOgOI,YAAAY,CPhOhB,CAAJ,C;QACI,cO+NqB,gC;QP9NrB,MAAM,gCAAYB,OAAQ,WA
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O,QAAS,UAAhB,C;QACI,IAAI,OAAA,QAAS,OAAO,EAAMB,OAAAnB,CAAJ,C;UACI,QAAS,S;UACT,OAAO,I
;;MAGf,OAAO,K;K;yDAGX,oB;MAGoB,Q;MAFhB,qB;MACA,eAAe,K;MACC,0B;MAAhB,OAAgB,cAAhB,C
;QAAgB,yB;QACZ,IAAI,eAAI,OAAJ,CAAJ,C;UAAkB,WAAW,I;;MAEjC,OAAO,Q;K;IAKuC,sE;MAAA,qB;Q
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AV,C;K;IAKU,sE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAoC
,YAA5B,iEAA4B,EAAU,oDAAV,C;K;gDAGxC,Y;MACI,qB;MACA,eAAe,IAAK,W;MACpB,OAAO,QAAS,UA
AhB,C;QACI,QAAS,O;QACT,QAAS,S;;K;iDAIjB,Y;MAE8B,OAAA,IAAK,U;K;yDAGnC,Y;K;;IC3CgD,+B;MA
AiC,oC;MACjF,gBAA8B,C;K;8CAM9B,mB;MAMI,qB;MACA,iBAAI,SAAJ,EAAU,OAAV,C;MACA,OAAO,I;
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Ad,C;QACA,UAAU,I;;MAEd,OAAO,O;K;0CAGX,Y;MACI,qB;MACA,yBAAY,CAAZ,EAAe,SAAF,C;K;IAKiB,
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;sDAGX,mB;MACI,iBAAc,sBAAd,WAA+B,CAA/B,U;QACI,IAAI,wBAAI,KAAJ,GAAC,OAAAd,CAAJ,C;UACI,
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;oDAGvE,8B;MAA4E,uCAAQ,IAAR,EAAc,SAAd,EAAyB,OAAzB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb
,C;MACf,YAAO,UAAU,SAAV,I;MnEuDX,iBAAc,CAAd,UAAAsB,KAAAtB,U;QmEtDiB,e;QACA,iB;;K;2CAIjB,i
B;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,oC
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,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACTb,eAAO,mBAAP,EAAO,2BAAP,O;MACA,OAAO,wBAAI,WA
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AsB,OAAQ,WAA9B,C;;MsE6CF,6BAAS,WAAAT,C;MACA,eAAQ,W;MACR,cAAO,E;K;;IAOqB,6D;MAHpC,o
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K;+DAEpC,mB;MACI,wBAAI,YAAJ,EAAW,OAAAX,C;MACA,mC;MACA,cAAO,E;K;+DAGX,mB;MtE1FJ,IAA
I,EsEmFU,gBAAQ,EtEnFIB,CAAJ,C;QACI,csEkFwB,4E;QtEjFxB,MAAM,6BAAsB,OAAQ,WAA9B,C;;MsEkFF
,wBAAI,WAAJ,EAAU,OAAV,C;K;;IAIgb,+D;MAAuF,8B;MAAtF,kB;MAA0C,4B;MAC/D,eAAyB,C;MAGrB,o
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,0B;MACI,oCAAA,4BAAMB,KAAAnB,EAA0B,YAA1B,C;MAEb,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OA
AvB,C;MACL,mC;K;wDAGJ,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAyB,YAAzB,C;MAEb,OAAO,wBAAK,mB
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;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
AK,KAAAM,IAAX,EAAgB,KAAAM,MAAtB,C;MAAtC,Y;K;IASBJ,+C;MACsE,6B;K;mEACIE,mB;MAAmD,kCA
Ac,OAAAd,C;K;iEAEnD,mB;MAAiD,gCAAY,OAAZ,C;K;;yCAIrD,Y;MACI,YAAQ,Q;K;IAOQ,+F;MAAA,sD;M

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B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB,O
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wB,0BAAc,S;K;;wFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,+G;K;sIAOmB,Y;MAAQ,OAAA,4BAAwB,K;
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Gf,e;MACI,qB;MACA,WAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAA,Y,IAAK,O;QACjB,QAA
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Gf,OAAO,I;K;kDAIX,Y;K;;IC3I+C,8B;MAAiC,oC;K;0CAEHf,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;
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vB,Y;MAG+B,OAAA,mCAAY,2BAAkB,IAAIB,C;K;;ICbT,0B;MAAuD,8B;MAAIC,4B;MACvD,4BAAkC,K;K;g
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CIB,qC;K;yCAGJ,oB;MACI,qB;MACA,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,uBAAA,oBxEioDoB,Q
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;QAAwB,OAAO,K;MAE3B,IADE,KACf,e;QAAQ,OAAO,oBAAO,QAAP,C;WACf,IAFE,KAef,O;QAAK,uBIE
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C;MACA,OAAW,UAAS,sBAAb,GACG,oBAAY,MADf,GAGG,oBAAY,QAAO,KAAP,EAAC,CAAd,CAAIB,CA
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B,OAaHb,CAAJ,C;UACU,oBAAY,QAAO,KAAP,EAAC,CAAd,C;UACIB,qC;UACA,OAAO,I;;MAGf,OAAO,K;
K;8CAGX,8B;MACI,qB;MACA,qC;MACM,oBAAY,QAAO,SAAP,EAaKB,UAAU,SAAV,IAAIB,C;K;gCAGtB,
Y;MACI,qB;MACA,uB9BhHuC,E;M8BiHvC,qC;K;wCAIJ,mB;MAA+C,OAAM,QAAN,oBAAM,EAQ,OAAR,
C;K;4CAErD,mB;MAAmD,OAAM,YAAN,oBAAM,EAAY,OAAZ,C;K;mCAEzD,Y;MAA0B,uBAAc,oBAAd,C;
K;0CAE1B,iB;MAGe,UAGL,MAHK,EAMO,M;MAPIB,IAAI,KAAM,OAAN,GAAa,SAAJB,C;QACI,OAAO,2D;;
MAGc,gBAAxB,eAAK,SAAL,IAAK,gBAAL,yB;MxEuwBL,UAAU,SAAV,EwEvwBsC,KxEuwBtC,EAD+F,CA
C/F,EADoH,CACpH,EADuI,gBACvI,C;MwErwBI,IAAI,KAAM,OAAN,GAAa,SAAJB,C;QACI,MAAM,SAAN,I
AAc,6E;;MAGIB,OAAO,K;K;kCAGX,Y;MACI,OAAO,EAAS,MAAM,MAAK,oBAAL,C;K;yCAIIB,Y;MACI,IA
AI,yBAAJ,C;QAAgB,MAAM,oC;K;+CAG1B,iB;MACI,oCAAa,kCAAYB,SAAZB,C;MADoB,Y;K;wDAIrC,iB;M
ACI,oCAAa,mCAA0B,SAAI1B,C;MAD6B,Y;K;;IAIJ9C,+B;MAAA,mD;MAG8B,sB9BRa,E8BQb,C;MAH9B,Y;K
;IAKA,kD;MAAA,mD;MAIkD,sB9BdP,E8BcO,C;MAJID,Y;K;IAMA,2C;MAAA,mD;MAGqD,sBIENa,YkEMR,
QIENQ,CkEMb,C;MAHrD,Y;K;ICrBJ,0C;MACI,IAAI,6BAAJ,C;QACU,KAAY,MAAK,UAAAL,C;;QAEIB,UAAU
,KAAV,EAawC,CAAxC,EAAd,cAAN,KAAM,CAAjD,EAA4D,eAAW,UAAAX,CAA5D,C;;K;IAMiB,kD;MAAA
,uB;QAAgB,OAAA,kBAAW,SAAQ,CAAR,EAaw,CAAX,C;O;K;IAFpD,4C;MACI,IAAI,6BAAJ,C;QACI,iBAA
iB,gC;QACX,KAAY,MAAK,UAAAL,C;;QAEIB,UAAU,KAAV,EAawC,CAAxC,EAAd,cAAN,KAAM,CAAjD,E
AA4D,UAA5D,C;;K;IAIR,gE;MACI,IAAI,aAAY,UAAU,CAAV,IAAZ,CAAJ,C;QACI,UAAU,KAAV,EAawC,S
AAxC,EAAMd,UAAU,CAAV,IAAnD,EAAGe,UAAhE,C;;K;IAMiB,gC;MAAGB,OAAE,iBAAF,CAAE,EAAU,C

AAV,C;K;IAF3C,0B;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gB;QACX,KAAY,MAAK,UAAAL,C;;QAEIB,UAAU, KAAV,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAJD,EAA4D,cAA5D,C;;K;;IAaa,kD;MAAoB,QAAC,IAAM,C AAP,KAAa,IAAM,CAAnB,K;K;IARzC,uC;MACI,sC;QAAiC,OAAjC,yB;;MACA,4BAA4B,K;MAE5B,YAAAY,E; MAGZ,iBAAc,CAAd,UAAaB,GAAtB,U;QAAiC,KAAY,MAAK,KAAL,C;MAC7C,iBAAiB,kC;MACX,KAAY,M AAK,UAAAL,C;MACIB,mBAAc,CAAd,YAAaB,KAAM,OAA5B,Y;QACI,QAAQ,MAAM,UAAQ,CAAR,IAAN,C ;QACR,QAAQ,MAAM,OAAAN,C;QACR,IAAI,CAAC,IAAM,CAAP,OAAc,IAAM,CAAPB,KAA0B,KAAK,CAA nC,C;UAAaC,OAAO,K;;MAEjD,4BAA4B,I;MAC5B,OAAO,I;K;IAIX,2D;MACI,aAAa,gBAAMB,KAAM,OAAz B,O;MACb,aAAa,YAAU,KAAV,EAAiB,MAAjB,EAAyB,KAAzB,EAAgC,YAAhC,EAA8C,UAA9C,C;MACb,IA AI,WAAW,KAAf,C;QACI,aAAU,KAAV,OAAiB,YAAjB,M;UAA+B,MAAM,CAAN,IAAW,OAAO,CAAP,C;;K; IAII,4D;MAEI,IAAI,UAAaB,GAAb,C;QACI,OAAO,K;;MAGX,aAAa,CAAC,QAAQ,GAAR,IAAD,IAAgB,CAA hB,I;MACb,WAAW,YAAU,KAAV,EAAiB,MAAjB,EAAyB,KAAzB,EAAgC,MAAhC,EAAwC,UAAxC,C;MAC X,YAAAY,YAAU,KAAV,EAAiB,MAAjB,EAAyB,SAAS,CAAT,IAAZB,EAAqC,GAAR,C,EAA0C,UAA1C,C;MAE Z,aAAiB,SAAS,MAAb,GAAqB,KAArB,GAAgC,M;MAG7C,gBAAGB,K;MACb,iBAAiB,SAAS,CAAT,I;MACj B,aAAU,KAAV,OAAiB,GAAjB,M;QAEQ,iBAaA,MAAb,IAAuB,cAAc,GAAR,C;UACI,gBAAGB,KAAK,SAAL ,C;UACb,iBAAiB,MAAM,UAAAN,C;UAEjB,IAAI,UAAW,SAAQ,SAAR,EAAmB,UAAANB,CAAX,IAA6C,CAAJ D,C;YACI,OAAO,CAAP,IAAY,S;YACZ,6B;;YAEA,OAAO,CAAP,IAAY,U;YACZ,+B;;eAGR,iBAaA,MAAb,C; UACI,OAAO,CAAP,IAAY,KAAK,SAAL,C;UACZ,6B;;UAGA,OAAO,CAAP,IAAY,MAAM,UAAAN,C;UACZ,+ B;;MAMZ,OAAO,M;K;ICrGX,4C;MAMoB,UACM,M;MAHtB,IAAI,iBAAJ,C;QAAkB,OAAO,C;MACzB,aAAa, C;MACb,wBAAGB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAEQ,oB;UAAmB,U;;UACnB,I1BFiC,MAAa,Y0BEn C,O1BFmC,C0BE9C,C;YAAwD,iCAAhC,OAAgC,C;iBAExD,uC;YAAmC,2BAAR,OAAQ,C;eACnC,wC;YAAm C,2BAAR,OAAQ,C;eACnC,sC;YAAmC,2BAAR,OAAQ,C;eACnC,uC;YAAmC,2BAAR,OAAQ,C;;YAEA,kBAA R,OAAQ,C;;QATvC,wB;QAYA,SAAS,MAAK,MAAL,QAAC,WAAAd,I;;MAEb,OAAO,M;K;;ICTP,uC;MAAA,2 C;K;2DACI,0B;MAA2D,sBAAU,MAAV,C;K;gEAE3D,iB;MAA6C,Q;MAAA,wEAAqB,C;K;;IAHtE,mD;MAAA ,kD;QAAA,iC;;MAAA,2C;K;;MC0BA,iC;MAKA,8B;MA6CA,0BAAMe,I;;IAzEnE,kC;MAAA,oB;MAA+B,8C; K;2CAE3B,mB;MAAYD,MAAM,qCAA8B,iCAA9B,C;K;uCAC/D,Y;MACI,WAAa,Q;K;uDAGjB,mB;MAAgE,O AAA,WAAa,uBAAc,OAAAd,C;K;0CAE7E,Y;MAAwE,OAAA,iCAAY,W;K;qDAEPf,mB;MACI,IAAI,iBAAS,OA AT,CAAJ,C;QACI,WAAa,cAAO,OAAQ,IAAf,C;QACb,OAAO,I;;MAEX,OAAO,K;K;wFAGY,Y;MAAQ,OAAA, WAAa,K;K;;8BA6ChD,Y;MACI,0BAAY,Q;K;0CAIhB,e;MAAmD,OAAA,0BAAY,gBAAS,GAAT,C;K;4CAE/D, iB;MAAmE,gBAAZ,0B;MAAY,c;;QvE+mDnD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,K;UAAP, e;;QACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAm,IuE/mDmD,uBAAS,gBvE+mD9C,OuE/mDwD,MA AV,QvE+mD5D,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;MuEhnDgD,iB;K;kFAInD,Y;MACI,IAAI,+BA AJ,C;QACI,0BAAW,qB;;MAEf,OAAO,sC;K;uCAGf,Y;MAAgF,iC;K;kCAEHf,e;MAA+C,OAAA,0BAAY,WAAI ,GAAJ,C;K;oCAE3D,sB;MAAgD,OAAA,0BAAY,aAAI,GAAJ,EAAS,KAAT,C;K;qCAE5D,e;MAAYC,OAAA,0B AAY,cAAO,GAAP,C;K;+EAEvB,Y;MAAQ,OAAA,0BAAY,K;K;;IA5DID,0C;MAAA,iD;MAAuD,8B;MAvC3D, mB;MAwCQ,8BAAMB,W;MACnB,2BAAGB,WAAAY,S;MAFhC,Y;K;IAKA,+B;MAAA,iD;MAGuB,aAAK,kEAA L,Q;MAHvB,Y;K;IAKA,4D;MAAA,iD;MAQ8D,qB;M7EpC9D,IAAI,E6EsCQ,mBAAMB,C7EtC3B,CAAJ,C;QA CI,c6EqCgC,+C;Q7EpChC,MAAM,gCAAYB,OAAQ,WAAjC,C;;MAFV,IAAI,E6EuCQ,cAAc,C7EvCtB,CAAJ,C; QACI,gB6EsC2B,yC;Q7ErC3B,MAAM,gCAAYB,SAAQ,WAAjC,C;;M6E0BV,Y;K;IAcA,gD;MAAA,iD;MAA2C ,eAAK,eAAL,EAAaB,GAAtB,Q;MAA3C,Y;K;IAGA,yC;MAAA,iD;MAG8C,qB;MAC1C,KAAK,gBAAO,QAAP, C;MAJT,Y;K;IAqCJ,4B;MAK8E,gBAAnE,aAAmB,gEAAAnB,C;MAA2E,wB;MAAIF,O1EvCO,S;K;;M2EjEP,uB;; kCAyCA,mB;MACI,UAAU,gBAAL,aAAI,OAAJ,EAAa,IAAb,C;MACd,OAAO,W;K;8BAGX,Y;MACI,gBAAL,Q; K;uCAOR,mB;MAA6D,OAAA,gBAAL,mBAAY,OAAZ,C;K;gCAEjE,Y;MAAYC,OAAA,gBAAL,U;K;iCAE7C,Y; MAAqD,OAAA,gBAAL,KAAK,W;K;qCAE9D,mB;MAAkD,OAAA,gBAAL,cAAO,OAAP,CAAJ,Q;K;+EAEpB,Y ;MAAQ,OAAA,gBAAL,K;K;;IA5D1C,6B;MAAA,iD;MAGoB,8B;MAZxB,mB;MAAq,oBAAM,gB;MAJV,Y;K;IA OA,yC;MAAA,iD;MAG2C,8B;MAnB/C,mB;MAoBQ,oBAAM,eAAgB,QAAS,KAAzB,C;MACN,qBAAO,QAAP, C;MALJ,Y;K;IAQA,4D;MAAA,iD;MAQ2D,8B;MAhC/D,mB;MAiCQ,oBAAM,eAAgB,eAAhB,EAAiC,UAAjC, C;MATV,Y;K;IAYA,gD;MAAA,iD;MAA2C,eAAK,eAAL,EAAaB,GAAtB,Q;MAA3C,Y;K;IAEA,oC;MAAA,iD; MAM0C,8B;MA5C9C,mB;MA6CQ,oBAAW,G;MAPf,Y;K;IAmCJ,+B;MAKuC,gBAA5B,eAAQ,eAAR,C;MAAo

C,6B;MAA3C,O3ENO,S;K;I4EzD6B,uC;MAAC,kC;MAErC,oBAaKc,kB;MACIC,sBAAyB,C;K;2EAHY,Y;MAA
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AY,GAAZ,EAAiB,KAAjB,CAAf,C;YACvB,6B;YACA,OAAO,I;;;UAIX,YAAuC,Y;UACvC,cAAkB,wBAAN,KA
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BxE/B,C4BwE2C,Q5BxE3C,C;;c4B2EoB,KAAy,QAAO,KAAP,EAAc,CAAd,C;;YAEtB,6B;YAEA,OAAO,OAA
M,M;;;MAIzB,OAAO,I;K;0CAGX,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;mDAGX,e;MAAyC,uBAAS,GAAT,
S;K;8CAEzC,e;MAA+B,Q;MAAA,+BAAS,GAAT,8B;K;+CAE/B,e;MACuB,Q;MAAA,oCAAsB,aAAS,qBAAY,
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AuC,Y;QACvC,OAAa,wBAAN,KAAM,EAAiB,GAAjB,C;;K;uDAlrB,0B;MACI,sB;;Q7F+nCY,Q;QAAbB,iD;UA
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L,C;MACvC,gBAAE,E;MAEf,oBAA4B,I;MAC5B,eAAc,K;MACd,iBAAgB,E;MACHb,iBAAqC,I;K;yEAErC,Y;
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AAY,C;QACZ,OAAO,C;;QAEp,oBAAE,I;QACf,OAAO,C;;K;mEAI,f,Y;MACI,IAAI,eAAS,EAAb,C;QACI,aAAQ,
oB;MACZ,OAAO,eAAS,C;K;gEAGpB,Y;MAEOB,Q;MADhB,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;MACN,
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R,OAAO,S;K;kEAGX,Y;M/E/CR,I+EgDyB,c/EhDrB,QAAJ,C;QACI,cAhByB,0B;QAIbZB,MAAM,6BAAsB,OA
AQ,WAA9B,C;;M+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,GAA0
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FUN,eAAe,kBAAW,GAAX,C;MACf,kBAAW,GAAX,IAAkB,K;MAEIB,IAAI,aAAa,SAAjB,C;QACI,6B;QAEA,
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A+B,8C;K;IAE3B,sD;MAAA,oB;MACl,cACsC,I;MAEtC,cACsC,I;MAGIC,cAAO,iC;K;6DAIX,Y;MACl,OAAO,
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Ca,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;QACl,cAdW,e;QAEX,MAAM,6BAASB,OAAQ,W
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;;iDAIf,mB;MAAyD,MAAM,qCAA8B,iCAA9B,C;K;6CAC/D,Y;MACl,WAAMb,Q;K;6DAGvB,mB;MAAgE,OA
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gB,K;;QkFkBZ,+B;QAEA,yBAAO,K;QACP,yBAAO,K;QAEp,qBAAa,S;QACb,qBAAa,S;;K;+CAIrB,qB;MAII,I
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,OAAjB,8BAAiB,e;eACnC,0B;YAAmC,OAAjB,8BAAiB,e;eACnC,2B;YAAoC,OAAjB,8BAAiB,gB;eACpC,yB;
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B;QQ/XC,0C;QACA,IAAI,E/G8QoC,0BAAU,C+G9Q9C,CAAJ,C;UACI,2BAAO,GAAP,C;;QAEW,sCAAa,GAA
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e,O;MACf,EAAE,WAAf,IAAiB,S;MACjB,EAAE,oBAaf,IAA0B,kB;MAC1B,EAAE,uBAaf,IAA6B,qB;MAC7
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Cd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IA
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;MAAA,kF;MAAA,0B;MAAA,uB;QAaI,IAAI,OAAO,CAAP,IAA8B,OAAO,KAAzC,C;UACI,MAAM,8BAAYB,
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V,6B;MAAC,qB;QAAA,8C;MAAA,kB;K;IACjC,2C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,yC;MAAA,4C;O;
MAKI,0E;MAEA,sE;K;;IAFA,kD;MAAA,+B;MAAA,0C;K;;IAEA,gD;MAAA,+B;MAAA,wC;K;;IAPJ,qC;MAA
A,yF;K;;IAAA,0C;MAAA,a;aAAA,S;UAAA,+C;aAAA,O;UAAA,6C;;UAAA,8D;;K;;IA0BmC,sC;MACnC,8B;K;
;IAMqC,sC;MACrC,8B;K;;IC5DJ,iC;K;;ICMA,4B;K;;IA6BA,gD;K;;IC5BA,qC;K;;IA0BA,+B;K;;ICNqC,uC;MA
CjC,uB;QAAA,UAAsB,E;MACtB,qB;QAAA,+C;MADA,sB;MACA,kB;K;IAEA,4C;MAAA,e;MAAA,iB;MAAA,
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;MAAA,yC;K;;IARJ,sC;MAAA,2F;K;;IAAA,2C;MAAA,a;aAAA,S;UAAA,gD;aAAA,O;UAAA,8C;;UAAA,+D;;
K;;IAyByB,4B;MACzB,8B;K;;IC/C4C,8B;K;kDAI5C,mB;MAA6D,c;;QrJ2rD7C,Q;QADhB,IAAI,mCAAsB,cAA
1B,C;UAAqC,aAAO,K;UAAP,e;;QACrB,sB;QAaHb,OAAGB,cAAhB,C;UAAgB,2B;UAAM,IqJ3rD6C,OrJ2rD/B,
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C;K;mDAE5C,iB;MAI4D,yBAAgB,IAAhB,EAAsB,KAAtB,C;K;;IC/BhE,8B;MAAA,e;MAAA,iB;MAAA,uB;K;I
AAA,4B;MAAA,+B;O;MACI,4C;MACA,kD;MACA,0C;MACA,8C;K;;IAHA,mC;MAAA,kB;MAAA,2B;K;;IAC
A,sC;MAAA,kB;MAAA,8B;K;;IACA,kC;MAAA,kB;MAAA,0B;K;;IACA,oC;MAAA,kB;MAAA,4B;K;;IAJJ,wB;
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CA,OAAO,kD;K;+CAeX,iB;MAII,2BAAY,K;MACZ,gD;K;sCAGJ,Y;MAII,+C;K;;ICjDkC,wB;MAoFtC,oC;MAP
FgE,6B;K;sCAIhE,Y;MAAuC,0C;K;2CAEvC,mB;MAAWd,uB;;QvJkU3C,Q;QADb,YAAy,C;QACC,sB;QAAb,O
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B,oBAAW,OAAhD,C;YAAL,K;YACQ,0BAAM,qBAAoB,YAAy,cAAZ,CAApB,CAAN,C;YAhL,K;QAAP,W;;
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IAEJ,4B;MAM6D,QAAM,gBAAN,C;aACzD,C;UADyD,OACpD,U;aACL,C;UAFyD,OAEPD,MAAM,UAAK,CA
AL,CAAN,C;;UAFoD,OAGjD,mBAAM,qBAAoB,YAAy,gBAAZ,CAApB,CAAN,C;;K;IAGZ,yC;MAIwB,OAAp
B,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAM4D,OAA6B,oBAA7B,mBAAM,oBAAN,CAA6B,C;K;IAEzF,yC;MAI
wB,SAApB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAMqD,QAAM,cAAN,C;aACjD,C;UADiD,OAC5C,U;aACL,C;
UAFiD,OC/X8B,uB;;Ud+X9B,OAGzC,uB;;K;IAGZ,iC;MAMmE,4BAAC,SAAd,C;K;IAEnE,yC;MAKI,WAAoB,0
B;MAApB,kB;K;IAEJ,kC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAAoB,MAAM,IAAN,C;;QAAqC,kB
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;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAA0B,MAAN,KAAM,C;;QAAiC,kBAApB,qBAAC,SAAd,C;Q
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C,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;
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QA,qC;MAIU,IAIe,I;MAHjB,kBADE,QACf,c;QAAiB,OAAO,yBAAO,QAAP,C;;QAEpB,aAAsB,K;QACT,0B;Q
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AO,wB;K;IAGf,kC;MACI,a9KmCwD,CAAC,mB;M8K1CzD,iB;MACA,OAAO,M;K;IAIX,2C;MAKkF,gCAAc,S
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C,0B;K;oFACH,Y;MAAQ,OAAA,eAAS,K;K;yCACxC,iB;MAAkC,mCAAS,0BAAoB,KAApB,CAAT,C;K;mCA
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1B,OAAO,Q;K;8FAGX,yB;MAAA,kD;MAAA,gC;QAGkI,gBAAS,aAAT,C;O;KAHII,C;IAGB0C,yB;K;+CAoBtC,
kC;MAOI,IAAI,uCAA0B,QAAS,UAAvC,C;QAAkD,M;MACID,OAAO,sBAAS,QAAS,WAAIB,e;K;+CAGX,kC;
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R,kC;MACI,IAAI,CAAC,QAAS,UAAAd,C;QAAyB,M;MACzB,sBAAe,Q;MACf,eAAQ,C;MACR,OAA6C,6CAAt
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;kGAIR,Y;MAAQ,0C;K;;IzK1LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;sFAAA,yB;MA
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C;O;KARvF,C;IAiBgE,+C;MAAA,mB;QAAE,sB;O;K;IALIE,kC;MAKuD,OAAkB,2CAAT,+BAAS,E;K;IAEzE,8
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B,Y;MAAqD,wD;K;;IAMBzD,0D;MACI,4B;MACA,4B;MACA,4B;K;IAEuC,sE;MAAA,gD;MACnC,iBAAgB,gC
AAU,W;MAC1B,iBAAgB,gCAAU,W;K;4DAC1B,Y;MACI,OAAO,sCAAU,cAAU,OAAPB,EAA4B,cAAU,OAAt
C,C;K;+DAGX,Y;MACI,OAAO,cAAU,UAUV,IAAuB,cAAU,U;K;;yCARhD,Y;MAAuC,uD;K;;IAc3C,6D;MACI,
0B;MACA,gC;MACA,0B;K;IAEuC,4E;MAAA,sD;MACnC,gBAAe,kCAAS,W;MACxB,oBAAiC,I;K;+DAEjC,Y;
MACI,IAAI,CAAC,2BAAL,C;QACI,MAAM,6B;MACV,OAAO,gCAAE,O;K;KEAG1B,Y;MACI,OAAO,2B;K;+E
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,aAAS,UAAAd,C;UACI,OAAO,K;;UAEP,cAAc,aAAS,O;UACvB,uBAAuB,wCAAS,2CAAY,OAAZ,CAAT,C;UA
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;IAoC9B,6I;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,4C;MAAA,kD;MAAA,gD;MAAA,wB;MAAA,yB;MAAA
,kC;K;;;yDAAA,Y;;;;;kBAGyC,I;iCAFIC,C;cACI,sD;cAAhB,gB;;;;;cAAA,KAAgB,yBAAhB,C;gBAAA,gB;;;cA
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K;8EyKjTA,4B;MAUI,OAAK,iBAAL,SAAK,EAAU,KAAV,C;K;ICTT,iC;K;;;oDayDI,0C;MAiB+D,oB;QAAA,2C;aAjB/D,kG;K;;IAoBJ,uC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,qC;MAAA,wC;O;MASI,4E;MAMA,8E;MAOA,4E;MAOA,kE;K;;IApBA,mD;MAAA,2B;MAAA,2C;K;;IAMA,oD;MAAA,2B;MAAA,4C;K;;IAOA,mD;MAAAA,2B;MAAA,2C;K;;IAOA,8C;MAAA,2B;MAAA,sC;K;;IA7BJ,iC;MAAA,+K;K;;IAAA,sC;MAAA,a;aAAA,c;UAAA,gD;aAAA,e;UAAA,iD;aAAA,c;UAAA,gD;aAAA,S;UAAA,2C;;UAAA,oE;;K;;oFAqCA,mB;K;;;;;;;;;;;;;;;;;;I7HmBiD,gD;MAAA,oB;QACzC,WAAW,sBAAmB,YAAF,CAAE,CAAnB,C;QACX,cAAM,IAAN,C;QADA,OA EA,IAAK,a;O;K;;;IAthb,+B;K;;iFAUA,yB;MAAA,4B;MAAA,mC;QAMI,6BDgDQ,WChDkB,KDgDIB,CChDR,C;O;KANJ,C;2GAQA,yB;MAAA,4B;MDgDQ,kD;MChDR,uC;QAOI,6BDgDQ,WAAO,cChDW,SDgDX,CAAP,CChDR,C;O;KAPI,C;+FAUA,yB;MAAA,kC;MAAA,mD;MAAA,yE;QASI,sC;QAAA,4C;O;MATJ,iGAWY,Y;QAAQ,2B;OAXpB,E;MAAA,0DAaQ,kB;QACI,wBAAW,MAAX,C;O;MadZ,sF;MAAA,sC;QASI,0D;O;KATJ,C;IAiBA,gD;MAaI,4BAA0D,YAAzC,wCAA6B,UAA7B,CAAYC,CAA1D,EAAyE,yBAAzE,C;K;IAEJ,4D;MAcI,4BAAoE,YAAAnD,0CAA6B,QAA7B,EAAuC,UAAvC,CAAmD,CAApE,EAAmF,yBAAnF,C;K;IAEJ,+C;MAU6C,YAAzC,wCAA6B,UAA7B,CAAYC,CAtEzC,oBDgDQ,WCSBsD,kBDtBtD,CChDR,C;K;IAyEJ,2D;MAWuD,YAAAnD,0CAA6B,QAA7B,EAAuC,UAAvC,CAAmD,CAPFnD,oBDgDQ,WCoCgE,kBDpChE,CChDR,C;K;IAuFJ,+C;MAYI,OAA6C,8BAAtC,c;K;8EAZX,yB;MAAA,oE;MAAA,6E;MAyID,gD;QAAA,oB;UACzC,WAAW,sBAAmB,YAAF,CAAE,CAAnB,C;UACX,cAAM,IAAN,C;UADA,OAEA,IAAK,a;S;O;MAfb,sC;QAYW,mBAAsC,8BAAtC,6B;QAAP,OAAO,kD;O;KAZX,C;qGA0BI,yB;MAAA,2D;MAAA,mB;QACI,MAAM,6BAAoB,0BAApB,C;O;KADV,C;;M8HzIA,yC;;IAAA,uC;MAAA,2C;K;;IAAA,mD;MAAA,kD;QAAA,iC;;MAAA,2C;K;+EakBA,wB;K;oDAaA,e;MAK2C,IAAI,IAAJ,EAGK,M;MAL5C,IAAI,+CAAJ,C;QAEI,OAAW,GAAl,kBAAS,IAAK,IAAd,CAAR,GAA4B,cAAI,OAAJ,GAAl,iBAAQ,IAAR,CAAJ,yCAA5B,GAAyD,I;;MAGpE,OAAW,8CAA4B,GAAhC,GA AqC,8EAArC,GAAoD,I;K;yDAI/D,e;MAGI,IAAI,+CAAJ,C;QACI,OAAW,GAAl,kBAAS,IAAK,IAAd,CAAJ,IA A0B,GAAl,iBAAQ,IAAR,CAAJ,QAA9B,GAAyD,mCAAzD,GAAoF,I;;MAE/F,OAAW,8CAA4B,GAAhC,GAAq C,mCAArC,GAAgE,I;K;;;ICtChD,oD;MACf,cAAc,GAAl,kBAAS,OAAQ,IAAjB,C;MACIB,IAAI,YAAY,mCAA hB,C;QADA,OACuC,O;;QAEEnC,kBAAkB,oBAAQ,yCAAR,C;QACIB,IAAI,mBAAJ,C;UAJJ,OAI6B,oBAAgB,O AAhB,EAAyB,OAAzB,C;;UACrB,WAAW,OAAQ,kBAAS,yCAAT,C;UAL3B,OAMY,SAAS,mCAAAb,GAAoC,o BAAgB,OAAhB,EAAyB,WAAzB,CAApC,GACI,oBAAgB,oBAAgB,IAAhB,EAAsB,OAAtB,CAAhB,EAAgD,W AAhD,C;;K;8CAdxB,mB;MAKI,OAAI,YAAY,mCAAhB,GAAuC,IAAvC,GACI,OAAQ,cAAK,IAAL,EA AW,4B AAX,C;K;;;qDAiCz,e;MAEyB,Q;MADrB,OACI,OAAA,IAAK,IAAL,EAAy,GAAZ,CAAJ,GAAqB,0EAArB,G AAoC,I;K;sDAExC,8B;MACI,iBAAU,OAAV,EAAmB,IAAnB,C;K;0DAEJ,e;MACI,OAAI,OAAA,IAAK,IAAL,E AAY,GAAZ,CAAJ,GAAqB,mCAArB,GAAgD,I;K;;;IC1DP,8C;MAAC,wB;K;kFAAA,Y;MAAA,yB;K;;IAiCe,wD ;MAEjE,kC;MAEA,4BAAqC,mDAAJ,GAakD,OAAQ,qBAA1D,GAA0E,O;K;4DAE3G,mB;MAA6C,+BAAS,OA AT,C;K;6DAC7C,e;MAA8C,eAAQ,IAAR,IAAgB,8BAAe,G;K;;IAGjF,+C;MAW2C,IAAI,IAAJ,EAGV,M;MAL7 B,IAAI,+CAAJ,C;QAEI,OAAW,GAAl,kBAAS,SAAK,IAAd,CAAR,GAA4B,cAAI,OAAJ,GAAl,iBAAQ,SAAR,C AAJ,yCAA5B,GAAyD,I;;MAGpE,OAAW,SAAK,IAAL,KAAa,GAAjB,GAAsB,mFAAtB,GAAqC,I;K;IAGhD,6C ;MAUI,IAAI,+CAAJ,C;QACI,OAAW,GAAl,kBAAS,SAAK,IAAd,CAAJ,IAA0B,GAAl,iBAAQ,SAAR,CAAJ,QA A9B,GAAyD,mCAAzD,GAAoF,S;;MAE/F,OAAW,SAAK,IAAL,KAAa,GAAjB,GAAsB,mCAAtB,GAAiD,S;K;I AG5D,iC;MAAA,qC;MAKI,4B;K;oDACA,Y;MAAiC,0C;K;kDAEjC,e;MAAyD,W;K;mDACzD,8B;MAA4E,c;K; mDAC5E,mB;MAAwE,c;K;uDACxE,e;MAA8D,W;K;+CAC9D,Y;MAAsC,Q;K;+CACtC,Y;MAAyC,8B;K;;;IAB7 C,6C;MAAA,4C;QAAA,2B;;MAAA,qC;K;IAqB8B,wC;MAC1B,kB;MACA,wB;K;4CAGA,e;MAGQ,Q;MAFJ,U AAU,I;MACV,OAAO,IAAP,C;QACI,YAAA,GAAl,UAAJ,aAAY,GAAZ,W;UAAwB,W;;QACxB,WAAW,GAAl, O;QACf,IAAI,oCAAJ,C;UACI,MAAM,I;;UAEN,OAAO,iBAAK,GAAL,C;;K;6CAKnB,8B;MACI,iBAAU,WAA K,cAAK,OAAL,EAAc,SAAd,CAAf,EAAyC,cAAzC,C;K;iDAEJ,e;UAGW,I;MAFP,+BAAQ,GAAR,U;QAAoB,O AAO,W;;MAC3B,cAAc,WAAK,kBAAS,GAAT,C;MAEf,gBAAY,WAAZ,C;QAAoB,W;WACpB,gBAAY,mCAA Z,C;QAAqC,qB;;QAC7B,2BAAgB,OAAhB,EAAyB,cAAzB,C;MAHZ,W;K;uCAOJ,Y;MAIc,IAAI,IAAJ,Q;MAH V,UAAU,I;MACV,WAAW,C;MACX,OAAO,IAAP,C;QACU,uBAAI,OAAJ,GAAl,OAAJ,gC;QAAA,mB;UAAgC ,OAAO,I;;QAA7C,MAAM,M;QACN,mB;;K;2CAIR,mB;MACI,+BAAI,OAAQ,IAAZ,GAAoB,OAAPB,C;K;8CA EJ,mB;MAQ4B,Q;MAPxB,UAAU,O;MACV,OAAO,IAAP,C;QACI,IAAI,CAAC,gBAAS,GAAl,UAAb,CAAL,C; UAA4B,OAAO,K;QACnC,WAAW,GAAl,O;QACf,IAAI,oCAAJ,C;UACI,MAAM,I;;UAEN,OAAO,gBAAS,0EA

AT,C;;;K;uCAKnB,iB;MACI,gBAAS,KAAT,KAakB,yCAA4B,KAAM,SAAN,KAAGB,AA5C,IAAsD,KAAM,e
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,Y;MACI,aAAM,kBAAK,EAAL,EAAS,+BAAT,CAAN,GAEL,G;K;IAMO,8E;MAAA,6B;QAAyB,Q;QAAT,iBA
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A+B,CAA/B,O;MACf,gBAAY,CAAZ,C;MACA,kBAAK,kBAAL,EAAW,oDAAX,C;M/KtFJ,IAAI,E+KuFM,YA
AS,C/KvFf,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;M+KuFN,OAAO,+BAAW,qDA
AX,C;K;IAGa,8C;MACpB,kD;MADqB,wB;K;IACrB,gD;MAAA,oD;MACI,4B;K;;;IADJ,4D;MAAA,2D;QAAA,0
C;;;MAAA,oD;K;yDAIA,Y;MAA0C,gBAAT,a;M7Lm9YrB,Q;MADhB,kB6Ll9YmD,mC;M7Lm9YnD,wBAAgB,S
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E;MA4BI,MAAM,wBAAoB,sEAApB,C;K;8GA5BV,yB;MAAA,2D;MAAA,sC;QA4BI,MAAM,6BAAoB,sEAAp
B,C;O;KA5BV,C;IA0CoC,mC;MAAQ,4D;K;IAE5C,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;
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C;K;IAAW,mD;MAAA,gC;MAAA,2C;K;IAL1E,sC;MAAA,sJ;K;IAAA,2C;MAAA,a;aAAA,qB;UAAA,4D;aA
AA,W;UAAA,kD;aAAA,S;UAAA,gD;UAAA,qF;K;6ECnDA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA
3B,SAAL,GAAuB,KAAS,C;O;KAHvF,C;2EAKA,yB;MAAA,0B;MAAA,mC;QAGqD,OAAgC,OAA1B,SAAL,G
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,yB;MAAA,4B;MAAA,mC;QAGyD,OAAiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;6EAKA,yB;MAAA,4
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AQA,0B;K;IAOA,sB;K;IAOA,4B;K;IAOA,6C;K;IA+BuC,wE;MAEnC,uB;QAAA,UAAsB,E;MACtB,qB;QAA
A,8B;MACA,2B;QAAA,qE;MACA,yB;QAAA,YAAqB,E;MAJrB,sB;MACA,sB;MACA,kB;MACA,8B;MACA,0
B;K;IAGJ,iD;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,+C;MAAA,kD;O;MAKI,wG;MACA,wG;MACA,8F;K;I
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6B;;K;;;iEA+CA,6B;;K;ICrDuC,0C;MACvC,uBAAoB,Y;K;wDAEPB,wC;MAM6F,W;K;uDAE7F,wC;K;oDA
MA,6B;MACI,OAAO,oB;K;oDAGX,oC;MACI,eAAe,IAAK,gB;MACpB,IAAI,CAAC,0BAAa,QAAb,EAAuB,QA
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,iB;MAAiD,OAAA,oBAAc,oBAAW,KAAX,C;K;kDAC/D,uB;MAA+D,OAAA,oBAAc,oBAAW,IAAX,EAAiB,K
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,MAAM,gCAAYB,OAAQ,WAAjC,C;;K;IwLwVd,yC;MAAYD,oCAA0B,IAA1B,qBAAiC,KAAjC,kB;K;ICrXzD,6

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OAAO,I;K;IAGX,oC;MAU+C,QAAM,SAAN,C;aAC3C,M;UAD2C,OACjC,I;aACV,O;UAF2C,OAehC,K;;UACH
,MAAM,gCAAYB,mDAAGD,SAAZ,E,C;;K;IAGIB,0C;MAUsD,QAAM,SAAN,C;aACID,M;UADkD,OACxC,I;aA
CV,O;UAFkD,OAevC,K;;UAFuC,OAG1C,I;K;I+Kr8CZ,sB;MAAA,0B;MAIL,aAC+B,e;MAC/B,cACgC,e;MACH
C,WAC6B,e;MAC7B,YAC8B,e;MAC9B,eACiC,e;MACjC,YAC8B,gB;MAC9B,aAC+B,gB;MAC/B,YAC8B,gB;
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B;MACxC,uBACyC,iB;MACzC,wBAC0C,iB;MAC1C,sBACwC,iB;MACxC,cACgC,iB;MACHC,oBACsC,iB;MA
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B,G;;UpMuEwB,MAAM,6BAA8B,CoMtEnE,mBAAGb,SpMsEmD,YAA9B,C;;K;IoMnEvD,4C;MACwE,QAAM,
SAAN,C;aACpE,I;UADoE,6C;aAEpE,I;UAFoE,8C;aAGpE,I;UAHoE,8C;aAIpE,G;UAJoE,yC;aAKpE,G;UALoE,y
C;aAMPe,G;UANoE,uC;aAOpe,G;UAPoE,sC;;UAQ5D,MAAM,gCAAyB,uCAAoC,SAA7D,C;;K;IAGlB,yD;MA
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;MAAkC,OAAA,iCAAoB,W;K;6CADhC,Y;MAAA,yC;K;;;IAN1B,4C;MAAA,2C;QAAA,0B;;MAAA,oC;K;IAW
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iBAAxB,EAAoC,0BAAS,QAAT,CAApC,C;K;;+CAGtD,Y;MAAmC,+CAAa,WAAb,EAAqB,IAArB,EAA2B,gCA
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,C;K;oEACtC,oB;MAAkD,mDAAe,gBAAf,EAA0B,iBAA1B,EAA5C,0BAAS,QAAT,CAAtC,C;K;;iDAGtD,Y;M
AAmC,mDAAe,WAAf,EAAuB,IAAvB,EAA6B,gCAAS,KAAtC,C;K;;IAGvC,0B;MAGb8B,yE;MAC1B,mB;K;oC
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CAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,MAAK,U7NyQA,K6NzQL,QAAqB,S7NyQhB,K6NzQL,I;K;
mCAE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;IAE5C,+B;MAAA,mC;MACI,aAC8B,cAAU,4BAAK,UAAf,EA
A0B,4BAAK,UAA/B,C;K;;IAFIC,2C;MAAA,0C;QAAA,yB;;MAAA,mC;K;;IAYJ,oD;MA4CI,uC;MatCI,IAAI,S
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EAAzB,C;MAG5C,aAGyB,K;MAEzB,YAGwB,4BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAExB,YA
GuB,I;K;yCAEvB,Y;MAAgD,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAEHd,Y;MAMqC,OA
AI,YAAO,CAAX,G7NvB6B,Y6NuBf,U7NvBgC,KAAjB,E6NuBP,S7NvBoC,KAA7B,C6NuBf,IAAd,G7NvB6B,
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K;IAEHf,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAA5C,IAAtC,C;K;;IAT/F,iD;
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II,Y;MAA4B,uB;K;;IAMhC,0B;K;oCAII,Y;MAA4B,wB;K;;IAMhC,wB;K;kCAII,Y;MAA4B,sB;K;;IAMhC,yB;K;
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N+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBwOA,kBAS6D,sB;MAT7D,+B;MgBxOA,wB;QAEuD,OA
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,C;0FAIA,yB;MjBgMA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MArBA,wB;QAMsD,OAqBA,eAAe,IAAf,EjB8Kj
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D,wB;MAT7D,+B;MiBpMA,8C;MAiCA,wB;QAMkD,OArCI,YAAY,IAAZ,EjB2MjB,eAAW,oBiBtKgB,KjBsKr
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SA,yB;Mf8HA,aAS6D,0B;MAT7D,+B;Me5KA,oD;Mf6OJ,4B;MAAA,iC;Me/LI,wB;QAQ+C,OfkMP,gBAAY,Qel
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,C;0FASA,yB;MhBwIA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBkQJ,6B;MgB3MI,wB;QAQ2C,OhB8MP,cgBv
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,C;O;KgBtNpC,C;0FASA,yB;MAhEA,oD;MAGEA,wB;QAQ6C,OAIES,eAAe,IAAf,EAkEL,KAIEK,C;O;KA0DtD
,C;0EAUA,yB;MAAA,+B;MAAA,mB;QAM0C,sBAAM,SAAK,MAAX,C;O;KAN1C,C;0EAQA,yB;MAAA,+B;
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N,C;O;KAPpD,C;0FASA,yB;MAAA,+B;MAAA,2B;QAOoD,sBAAM,6BAAU,QAAV,CAAN,C;O;KAPpD,C;0F
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1.94 bouncy-castle 1.72

1.94.1 Available under license :

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

```
/**
```

```
* The Bouncy Castle License
```

```
*
```

```
* Copyright (c) 2000-2022 The Legion Of The Bouncy Castle Inc. (https://www.bouncycastle.org)
```

```
* <p>
```

```
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```

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* <p>
```

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```
* <p>
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```

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```

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* DEALINGS IN THE SOFTWARE.
*/

Found in path(s):

* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-zip/org/bouncycastle/LICENSE.java
No license file was found, but licenses were detected in source scan.

/**

* Copyright (c) 2011 Tim Buktu (tbuktu@hotmail.com)

*

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* FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
* DEALINGS IN THE SOFTWARE.

*/

Found in path(s):

* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-
zip/org/bouncycastle/pqc/legacy/math/ntru/euclid/test/IntEuclideanTest.java
No license file was found, but licenses were detected in source scan.

/**

* Magic value for proprietary OpenSSH private key.

**/

Found in path(s):

* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-
zip/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java

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

```
public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,
```

Found in path(s):

```
* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-  
zip/org/bouncycastle/asn1/x9/DomainParameters.java
```

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

```
/**
```

```
* Poly1305 message authentication code, designed by D. J. Bernstein.
```

```
* <p>
```

```
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
```

```
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
```

```
* effective key bits) used in the authenticator.
```

```
* <p>
```

```
* The polynomial calculation in this implementation is adapted from the public domain <a
```

```
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
```

```
* by Andrew M (@floodyberry).
```

```
* @see Poly1305KeyGenerator
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-zip/org/bouncycastle/crypto/mac/Poly1305.java
```

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

```
/**
```

```
* Contains the polynomial classes used in the NTRU round 3 algorithm.
```

```
*
```

```
* <p>
```

```
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC  
competition,
```

```
* released under CC0-1.0 license.
```

```
* </p>
```

```
*
```

```
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-  
3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
```

```
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference  
implementation</a></p>
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-zip/org/bouncycastle/pqc/math/ntru/package-  
info.java
```

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

```
// now keep space is free to use
```

Found in path(s):

```
* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-  
zip/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java  
No license file was found, but licenses were detected in source scan.
```

```
/**
```

```
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old  
NTRU, see
```

```
* { @link org.bouncycastle.pqc.legacy.crypto.ntru }.
```

```
*
```

```
* <p>
```

```
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC  
competition,
```

```
* released under CC0-1.0 license.
```

```
* </p>
```

```
*
```

```
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-  
3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
```

```
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference  
implementation</a></p>
```

```
*
```

```
* @see <a href="https://csrc.nist.gov/Projects/post-quantum-cryptography/round-3-submissions">NIST round 3  
PQC submissions page</a>
```

```
* @see <a href="https://ntru.org/">NTRU website</a>
```

```
* @see <a href="https://ntru.org/f/ntru-20190330.pdf">NTRU specification</a>
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-zip/org/bouncycastle/pqc/crypto/ntru/package-  
info.java
```

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

```
/**
```

```
* SPHINCS-256 signer.
```

```
* <p>
```

```
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being  
the digests used
```

```
* for message hashing and tree construction are now configurable (within limits...) and that the implementation  
produces
```

```
* detached signatures.
```

```
* </p>
```

```
* <p>
```

```
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of  
section 1 in https://eprint.iacr.org/2014/795.pdf
```

```
* </p>
```

```
*/
```

Found in path(s):

* /opt/cola/permits/1487838996_1674089109.076011/0/src-116-
zip/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java

1.95 jctools-core 4.0.1

1.95.1 Available under license :

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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.j
ctools.queues.atomic;uses:="org.jctools.queues";version="4.0.1",org.j
ctools.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

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

<name>Apache License, Version 2.0</name>
<url><http://www.apache.org/licenses/LICENSE-2.0.txt></url>

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

1.96 metrics-annotation 4.1.17

1.96.1 Available under license :

Apache-2.0

1.97 dropwizard-configuration 2.0.18

1.97.1 Available under license :

Apache-2.0

1.98 metrics-servlets 4.1.17

1.98.1 Available under license :

Apache-2.0

1.99 dropwizard-jetty 2.0.18

1.99.1 Available under license :

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```
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```

```
* Copyright 2013-2014 The Apache Software Foundation (Curator Project)
```

```
*
```

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```

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* License, version 2.0 (the "License"); you may not use this file except in
```

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```

```
* under the License.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1508291049_1670974969.4034815/0/dropwizard-jetty-2-0-18-sources-1-jar/io/dropwizard/jetty/LocalIpFilter.java
```

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

```
/*
```

```
* 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:
```

```
*
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```


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- * License for the specific language governing permissions and limitations
- * under the License.
- */

Found in path(s):

* /opt/cola/permits/1508291049_1670974969.4034815/0/dropwizard-jetty-2-0-18-sources-1-jar/io/dropwizard/jetty/NetUtil.java

1.100 dropwizard-servlets 2.0.18

1.100.1 Available under license :

Apache-2.0

1.101 dropwizard-jersey 2.0.18

1.101.1 Available under license :

Apache-2.0

1.102 dropwizard-logging 2.0.18

1.102.1 Available under license :

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/*

- * Logback: the reliable, generic, fast and flexible logging framework.
- * Copyright (C) 1999-2015, QOS.ch. All rights reserved.
- *
- * This program and the accompanying materials are dual-licensed under
- * either the terms of the Eclipse Public License v1.0 as published by
- * the Eclipse Foundation
- *
- * or (per the licensee's choosing)
- *
- * under the terms of the GNU Lesser General Public License version 2.1
- * as published by the Free Software Foundation.
- */

Found in path(s):

* /opt/cola/permits/1508291183_1670974960.632932/0/dropwizard-logging-2-0-18-sources-jar/io/dropwizard/logging/ResilientOutputStreamBase.java

1.103 dropwizard-lifecycle 2.0.18

1.103.1 Available under license :

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1.104 drop-wizard-metrics 2.0.18

1.104.1 Available under license :

Apache-2.0

1.105 metrics-jetty 4.1.17

1.105.1 Available under license :

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1.106 metrics-jersey2 4.1.17

1.106.1 Available under license :

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1.107 metrics-jmx 4.1.17

1.107.1 Available under license :

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1.108 metrics-json 4.1.17

1.108.1 Available under license :

Apache-2.0

1.109 dropwizard-util 2.0.18

1.109.1 Available under license :

Apache-2.0

1.110 metrics-jvm 4.1.17

1.110.1 Available under license :

Apache-2.0

1.111 dropwizard-validation 2.0.18

1.111.1 Available under license :

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/*

* Hibernate Validator, declare and validate application constraints

*

* License: Apache License, Version 2.0

* See the license.txt file in the root directory or <<http://www.apache.org/licenses/LICENSE-2.0>>.

*/

Found in path(s):

* /opt/cola/permits/1508291129_1670974993.4238553/0/dropwizard-validation-2-0-18-sources-1-jar/io/dropwizard/validation/InterpolationHelper.java

1.112 dropwizard-request-logging 2.0.18

1.112.1 Available under license :

Apache-2.0

1.113 dropwizard-jackson 2.0.18

1.113.1 Available under license :

Apache-2.0

1.114 metrics-logback 4.1.17

1.114.1 Available under license :

Apache-2.0

1.115 dropwizard-core 2.0.18

1.115.1 Available under license :

Apache-2.0

1.116 protobuf-java 3.21.12

1.116.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/Message.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/FieldType.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/ExtensionSchemas.java  
*  
/opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/ProtocolMessageEnum.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/UnmodifiableLazyStringList.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/LazyStringArrayList.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/Extension.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/CodedOutputStream.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/RopeByteString.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/SingleFieldBuilder.java  
*  
/opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/google/protobuf/duration.proto  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/CodedOutputStreamWriter.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/BufferAllocator.java  
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-  
jar/com/google/protobuf/ProtocolStringList.java
```

* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/BlockingService.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/StructuralMessageInfo.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageInfoFactory.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/ArrayDecoders.java
*
/opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapFieldLite.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/ManifestSchemaFactory.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/RawMessageInfo.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/GeneratedMessageInfoFactory.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/ByteBufferWriter.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExtensionRegistryFactory.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/RpcChannel.java
*
/opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/BinaryWriter.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/SmallSortedMap.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/UnsafeByteOperations.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/ExperimentalApi.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/SchemaUtil.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/MessageOrBuilder.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapFieldSchemas.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/FloatArrayList.java
*
/opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/SchemaFactory.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/MapField.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-

jar/com/google/protobuf/CanIgnoreReturnValue.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-
jar/com/google/protobuf/TextFormatParseLocation.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-
jar/com/google/protobuf/MessageLiteToString.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-
jar/google/protobuf/struct.proto
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-
jar/com/google/protobuf/ByteString.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-
jar/com/google/protobuf/ExtensionRegistryLite.java
*
/opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-
jar/com/google/protobuf/ExtensionRegistry.java
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* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/google/protobuf/source_context.proto
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/opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/com/google/protobuf/LazyStringList.java
* /opt/cola/permits/1521222018_1672206959.0969713/0/protobuf-java-3-21-12-sources-jar/google/protobuf/field_mask.proto

1.117 protobuf-java-util 3.21.12

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Manifest-Version: 1.0

Automatic-Module-Name: com.google.protobuf.util

Bnd-LastModified: 1671050288830

Build-Jdk: 11.0.13

Built-By: kfm

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: 3.21.12

Created-By: Apache Maven Bundle Plugin

Export-Package: com.google.protobuf.util;version="3.21.12";uses:="com.go

ogle.protobuf.javax.annotation"

Import-Package: com.google.common.base;version="[31.1,32)",com.google.common.io;version="[31.1,32)",com.google.common.math;version="[31.1,32)",com.google.common.primitives;version="[31.1,32)",com.google.gson;version="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobuf;version="[3.21,4)",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/1528958162_1673434355.07393/0/protobuf-java-util-3-21-12-jar/META-INF/MANIFEST.MF

1.118 objenesis 3.3

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1.119 jackson-datatype-jdk8 2.14.2

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1.120 jackson-jaxrs 2.14.2

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1.122 jackson-dataformat-yaml 2.14.2

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1.123 jackson-jaxrs-base 2.14.2

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1.124 jackson-datatype-guava 2.14.2

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1.127 jackson-module-parameter-names

2.14.2

1.127.1 Available under license :

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1.128 jackson-xc 2.14.2

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1.129 jackson-datatype-jsr310 2.14.2

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1.130 jackson-datatype-joda 2.14.2

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1.131 proto-google-common-protos 2.9.0

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```
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-  
jar/google/api/launch_stage.proto
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```
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-  
jar/google/api/usage.proto  
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-  
jar/google/api/endpoint.proto  
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-  
jar/google/api/service.proto  
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-  
jar/google/api/consumer.proto  
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-  
jar/google/api/distribution.proto  
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-  
jar/google/api/error_reason.proto
```

```
*
```


/opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/context.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/date.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/quota.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/field_behavior.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/httpbody.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/routing.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/system_parameter.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/datetime.proto
*
/opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/color.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/billing.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/logging/type/log_severity.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/decimal.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/config_change.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/latlng.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/metric.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/control.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/money.proto
*
/opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/month.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/logging.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/client.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/log.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/timeofday.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/geo/type/viewport.proto

* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/rpc/status.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/fraction.proto
*
/opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/documentation.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/interval.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/postal_address.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/logging/type/http_request.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/dayofweek.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/source_info.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/label.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/quaternion.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/rpc/error_details.proto
*
/opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/backend.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/expr.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/annotations.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/longrunning/operations.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/rpc/code.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/calendar_period.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/type/phone_number.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/resource.proto
*
/opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/api/http.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/cloud/extended_operations.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-jar/google/rpc/context/attribute_context.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-

```
jar/google/api/monitored_resource.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-
jar/google/api/auth.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-
jar/google/api/visibility.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-
jar/google/api/monitoring.proto
* /opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-
jar/google/type/localized_text.proto
*
/opt/cola/permits/1572890195_1677106955.5681205/0/proto-google-common-protos-2-9-0-1-
jar/google/cloud/audit/audit_log.proto
```

1.132 jackson-module-afterburner 2.14.2

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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/parser/Parser.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
*
/opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/ValueToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/AliasEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/ScalarEvent.java
*
/opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/CommentEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Production.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
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jar/org/yaml/snakeyaml/introspector/GenericProperty.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.
 * source-code.biz/base64coder/java</a><br>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
 * Multi-licensed: EPL / LGPL / GPL / AL / BSD.
 */
```

Found in path(s):

```
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

1.134 byte-buddy 1.14.1

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1.135 jose4j 0.9.3

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Found in path(s):

```
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/StringUtil.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwa/AlgorithmAvailability.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/AesGcmContentEncryptionAlgorithm.java
*
/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwt/consumer/JwtConsumer.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
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* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/json/JsonUtil.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/Pbes2HmacShaWithAesKeyWrapAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/UnresolvableKeyException.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/X509VerificationKeyResolver.java
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* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/InvalidAlgorithmException.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/AesCbcHmacSha2ContentEncryptionAlgorithm.java
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* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/RsaUsingShaAlgorithm.java
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* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/VerificationKeyResolver.java
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* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/JwtClaims.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jca/ProviderContext.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/JoseException.java
*
/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwa/AlgorithmFactoryFactory.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/AesKeyWrapManagementAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/UnsecuredNoneAlgorithm.java

* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionHelp.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwa/AlgorithmConstraints.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/ErrorCodeValidator.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/AlgorithmIdentifiers.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/KeyManagementAlgorithmIdentifiers.java
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* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/InvalidJwtException.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/PbkdfKey.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/OctJwkGenerator.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionKeys.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/base64url/Base64Url.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/UncheckedJoseException.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/AesKey.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/RsaJsonWebKey.java
*
/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwa/AlgorithmInfo.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/DirectKeyManagementAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwx/Headers.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/zip/DeflateRFC1951CompressionAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/SubValidator.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/WrappingKeyManagementAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/PublicJsonWebKey.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/IntDate.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/KeyOperations.java
*
/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/EcdsaUsingShaAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/Validator.java

* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/EcdhKeyAgreementAlgorithm.java
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 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/RsaKeyManagementAlgorithm.java
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 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/NumericDate.java
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 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/BigEndianBigInteger.java
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 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/CipherStrengthSupport.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/SimpleAeadCipher.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/json/JsonHeaderUtil.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/zip/CompressionAlgorithmIdentifiers.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/HttpsJwksVerificationKeyResolver.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/RsaKeyUtil.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwx/HeaderParameterNames.java
 *
 /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/X509Util.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/Use.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/JsonWebEncryption.java

* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwx/JsonWebStructure.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/base64url/SimplePEMEncoder.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/EcKeyUtil.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/ByteUtil.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/BouncyCastleProviderHelp.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/JsonWebSignature.java
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 /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/MalformedClaimException.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/EllipticCurves.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/EcJwkGenerator.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/OctetSequenceJsonWebKey.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/ReservedClaimNames.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/HashUtil.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionAlgorithmIdentifiers.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwa/Algorithm.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/ErrorCodes.java
 *
 /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/zip/CompressionAlgorithm.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JtiValidator.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/HmacKey.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/ErrorCodeValidatorAdapter.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwx/CompactSerializer.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/SimpleKeyResolver.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/ExceptionHelp.java
 *
 /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/KeyPersuasion.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/JsonHelp.java
 * /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-

jar/org/jose4j/jwe/ContentEncryptionKeyDescriptor.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwt/consumer/NumericDateValidator.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwk/VerificationJwkSelector.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/keys/resolvers/JwksVerificationKeyResolver.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jws/BaseSignatureAlgorithm.java
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/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwk/RsaJwkGenerator.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/AesGcmKeyEncryptionAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/ContentEncryptionAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jws/HmacUsingShaAlgorithm.java
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jar/org/jose4j/jwe/kdf/ConcatenationKeyDerivationFunctionWithSha256.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunction.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunctionFactory.java
*

/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/kdf/KdfUtil.java

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jar/org/jose4j/base64url/internal/apache/commons/codec/binary/Base64.java
*

/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java

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jar/org/jose4j/lang/InvalidKeyException.java

* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-

```
jar/org/jose4j/jwk/SelectorSupport.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwk/DecryptionJwkSelector.java
*
/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwk/SimpleJwkFilter.java
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```

1.136 json-java 20230227

1.136.1 Available under license :

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1.137 error_prone_annotations 2.18.0

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* /opt/cola/permits/1606613656_1679417956.422988/0/error-prone-annotations-2-18-0-1-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.138 swagger-annotations 1.6.9

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Manifest-Version: 1.0

Bnd-LastModified: 1668500773188

Build-Jdk: 1.8.0_151

Built-By: frantuma

Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: swagger-annotations

Bundle-SymbolicName: io.swagger.annotations

Bundle-Version: 1.6.9

Created-By: Apache Maven Bundle Plugin

Export-Package: io.swagger.annotations;version="1.6.9"

implementation-version: 1.6.9

mode: development

package: io.swagger

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.3.0.201609221906

url: <https://github.com/swagger-api/swagger-core/modules/swagger-annotations>

Found in path(s):

* /opt/cola/permits/1609771975_1681853256.3914962/0/swagger-annotations-1-6-9-1-jar/META-INF/MANIFEST.MF

1.139 metrics 4.2.18

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1.140 client-java-proto 18.0.0

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jar/io/kubernetes/client/proto/V1alpha1Settings.java
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* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-  
jar/io/kubernetes/client/proto/V1alpha1Admissionregistration.java
```

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/opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1alpha1Admission.java

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* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Policy.java

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* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Authorization.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Storage.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Admissionregistration.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Apiextensions.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Rbac.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1alpha1Imagepolicy.java

*

/opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V2beta1Autoscaling.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Authentication.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/Runtime.java

* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Batch.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Apps.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Rbac.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/Resource.java
*
/opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/Meta.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Networking.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/RuntimeSchema.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Autoscaling.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Authentication.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Admission.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Certificates.java
*
/opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Extensions.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Certificates.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Admission.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Apps.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta2Apps.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Authorization.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1Policy.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Batch.java
*
/opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V2beta2Autoscaling.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/IntStr.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-jar/io/kubernetes/client/proto/V1alpha1Scheduling.java
* /opt/cola/permits/1627240883_1681885463.3899114/0/client-java-proto-18-0-0-sources-

1.141 client-java-api 18.0.0

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Found in path(s):

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* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CertificateSigningRequestSpec.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1RBDPersistentVolumeSource.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2HorizontalPodAutoscaler.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/StringUtil.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodFailurePolicy.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodTemplate.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1KeyToPath.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ConfigMapEnvSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/StorageV1beta1Api.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1EndpointSliceList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/AdmissionregistrationV1WebhookClientConfig.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/FlowcontrolApiserverV1beta1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2MetricStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CertificateSigningRequestList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodDNSConfigOption.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1GRPCAction.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/CoreApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2FlowSchemaCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Secret.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1PriorityLevelConfigurationList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2FlowSchemaSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2MetricValueStatus.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/AuthorizationV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ServiceAccountTokenProjection.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1beta2LimitResponse.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1alpha1ClusterCIDRList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1NodeSelectorRequirement.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1DeleteOptions.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta2PriorityLevelConfigurationSpec.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1RuleWithOperations.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1LeaseSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2ContainerResourceMetricSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2ContainerResourceMetricStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/CoordinationV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/ApiRegistrationV1ServiceReference.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1HostPathVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/CoreV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1RollingUpdateDeployment.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1EphemeralVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PodDisruptionBudgetList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1EphemeralContainer.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1StatefulSetStatus.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1SecretProjection.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta2PolicyRulesWithSubjects.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1NetworkPolicyEgressRule.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1LoadBalancerIngress.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1APIServiceCondition.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2ServiceAccountSubject.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2ContainerResourceMetricSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2HorizontalPodAutoscalerBehavior.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/EventsV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1GroupVersionForDiscovery.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ConfigMapVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2ResourceMetricStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/StorageV1TokenRequest.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ValidationRule.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1AWSElasticBlockStoreVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ScaleSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2ObjectMetricStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1DeploymentCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ConfigMap.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1VolumeAttachment.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1AttachedVolume.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ReplicationControllerCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ServiceSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ContainerPort.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1FlexVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/BatchApi.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Binding.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/NetworkingV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodReadinessGate.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CephFSPersistentVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CustomResourceConversion.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ContainerStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1DownwardAPIVolumeFile.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/GzipRequestInterceptor.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ReplicationControllerSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1SubjectAccessReview.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CronJobSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Volume.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2HPAScalingRules.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1StorageOSPersistentVolumeSource.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ComponentStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1DaemonEndpoint.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Pod.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ReplicaSet.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1IngressList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NodeConfigStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CustomResourceValidation.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodAffinityTerm.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ServiceBackendPort.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V2MetricTarget.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PriorityClassList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PersistentVolumeList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1FlockerVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1UserSubject.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2beta2MetricIdentifier.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ReplicaSetStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1StatefulSetSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1NetworkPolicySpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1IngressStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Affinity.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1CSISStorageCapacityList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1DeploymentStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CrossVersionObjectReference.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1EventSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ISCSIVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PodSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1NodeList.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1PriorityLevelConfiguration.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ConfigMapKeySelector.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1EndpointConditions.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ExecAction.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1NamespaceCondition.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1APIServiceSpec.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/auth/HttpBasicAuth.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ISCSIPersistentVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1VolumeMount.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1IngressRule.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NodeStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1LoadBalancerStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CustomResourceSubresources.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/AppsV1Api.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ConfigMapNodeConfigSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Preconditions.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1AggregationRule.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1EndpointsList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1RuntimeClassList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2FlowSchema.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2MetricStatus.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1FlowSchemaList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NonResourceAttributes.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ResourceRequirements.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/SchedulingV1Api.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2UserSubject.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2ExternalMetricSource.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/LogsApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodDisruptionBudgetSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1APIServiceList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1JobCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Container.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1SelfSubjectRulesReviewSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1DaemonSetStatus.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2HorizontalPodAutoscalerSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/CertificatesV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1LimitedPriorityLevelConfiguration.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CronJobList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ResourceQuotaSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1StatefulSetCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodFailurePolicyRule.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NetworkPolicyPort.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodFailurePolicyOnExitCodesRequirement.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NodeAddress.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/DiscoveryV1EndpointPort.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1StatefulSetPersistentVolumeClaimRetentionPolicy.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PersistentVolumeClaimStatus.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ControllerRevisionList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2PodsMetricStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/AdmissionregistrationV1ServiceReference.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PodFailurePolicyOnPodConditionsPattern.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ReplicationControllerStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1alpha1StorageVersion.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1SubjectAccessReviewSpec.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CertificateSigningRequest.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/auth/HttpBearerAuth.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2beta2HPAScalingPolicy.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/ApiResponse.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1APIVersions.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/ApiException.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1NetworkPolicyStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Job.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1DeploymentStrategy.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2beta2CrossVersionObjectReference.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ResourceRule.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/ApiextensionsApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1IngressClassList.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1VolumeAttachmentSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PersistentVolumeClaimCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1HTTPIngressPath.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1alpha1ServerStorageVersion.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2ExternalMetricStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Node.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PriorityClass.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1LifecycleHandler.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ResourceQuotaStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1TCPSocketAction.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PersistentVolumeStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1TokenRequestStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PolicyRule.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodList.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NamespaceSpec.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PhotonPersistentDiskVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PersistentVolumeClaimVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1WebhookConversion.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1MutatingWebhookConfiguration.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/ApiregistrationApi.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ClusterRoleBinding.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/CoreV1EventList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/ApiextensionsV1WebhookClientConfig.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1FCVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/FlowcontrolApiserverApi.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Role.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1GroupSubject.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1EndpointSubset.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1JobSpec.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1VolumeProjection.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1DownwardAPIProjection.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ReplicaSetList.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1beta1FlowSchemaCondition.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V2ExternalMetricSource.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1beta2PriorityLevelConfigurationStatus.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1UncountedTerminatedPods.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1WindowsSecurityContextOptions.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/Pair.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1NodeSelector.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V2ObjectMetricSource.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1APIGroupList.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ListMeta.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1NodeAffinity.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1HorizontalPodAutoscalerStatus.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/AutoscalingV2Api.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1VolumeNodeAffinity.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1NamespaceStatus.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1beta1NonResourcePolicyRule.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1IngressSpec.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1IngressClassSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/AdmissionregistrationV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1VsphereVirtualDiskVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ResourceFieldSelector.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1DaemonSetList.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ServerAddressByClientCIDR.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1NetworkPolicyIngressRule.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CustomResourceDefinitionStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ClientIPConfig.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CSINodeDriver.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CSINodeSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ReplicationController.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1EnvFromSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CustomResourceDefinition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1HorizontalPodAutoscaler.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1RuntimeClass.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ValidatingWebhookConfigurationList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CustomResourceSubresourceScale.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1StatusDetails.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1EnvVar.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CustomResourceDefinitionSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1FlowSchema.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/ApiextensionsV1ServiceReference.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/EventsV1EventSeries.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1TokenReviewStatus.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1QuobyteVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1DaemonSetCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1HTTPGetAction.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NetworkPolicy.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Probe.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1TokenRequestSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/AuthorizationApi.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2HorizontalPodAutoscaler.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1EnvVarSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/AdmissionregistrationApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2ObjectMetricSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NFSVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1JobTemplateSpec.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ForZone.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/auth/Authentication.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/VersionInfo.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1DaemonSetSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/AutoscalingV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/ApiClientCallback.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CSIDriver.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1StorageClassList.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Eviction.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1MutatingWebhook.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1SecretReference.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2beta2MetricTarget.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1NodeSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Scheduling.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/EventsV1Event.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CronJob.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1FlowSchemaSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PersistentVolume.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1HTTPIngressRuleValue.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2CrossVersionObjectReference.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1EndpointSlice.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Endpoint.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ManagedFieldsEntry.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1EmptyDirVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PortStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1VolumeDevice.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ScopedResourceSelectorRequirement.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CSIVolumeSource.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1SecretList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1ScaleIOPersistentVolumeSource.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1PreferredSchedulingTerm.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V2beta2MetricValueStatus.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1beta2PriorityLevelConfiguration.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1beta2GroupSubject.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/ProgressRequestBody.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/WellKnownApi.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/auth/ApiKeyAuth.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1TopologySelectorTerm.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/CustomObjectsApi.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/CoreV1Event.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ClusterRole.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1HostAlias.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1SecretEnvSource.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1Namespace.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ComponentStatusList.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1HorizontalPodAutoscalerList.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1beta2LimitedPriorityLevelConfiguration.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/ApiextensionsV1Api.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1GlusterfsVolumeSource.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1APIGroup.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ReplicaSetCondition.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1AzureDiskVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2QueuingConfiguration.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1EndpointHints.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NonResourceRule.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NetworkPolicyList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodDisruptionBudgetStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PortworxVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ObjectMeta.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2FlowSchemaList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2PriorityLevelConfigurationCondition.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2ExternalMetricStatus.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1IngressClass.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1RoleRef.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/SchedulingApi.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1HorizontalPodAutoscalerSpec.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ReplicationControllerList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ExternalDocumentation.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/AutoscalingApi.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CSIPersistentVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CronJobStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/OpenidApi.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1APIServiceStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1DeploymentList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1IngressServiceBackend.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PersistentVolumeClaim.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1alpha1StorageVersionStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2beta2HorizontalPodAutoscalerSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2HPAScalingPolicy.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1HTTPHeader.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PersistentVolumeClaimSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1VolumeError.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Condition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Service.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Status.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1JSONSchemaProps.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PersistentVolumeClaimList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1PriorityLevelConfigurationSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ServiceAccount.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ComponentCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PodStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ServiceAccountList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta2FlowSchemaStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1ResourcePolicyRule.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1LocalSubjectAccessReview.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1WeightedPodAffinityTerm.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1beta1QueuingConfiguration.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/InternalApiserverApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/StorageApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1IngressClassParametersReference.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1SeccompProfile.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ResourceQuotaList.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/EventsV1EventList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta2PriorityLevelConfigurationList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ContainerStateTerminated.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CinderPersistentVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ResourceQuota.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1RoleBinding.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1SelfSubjectRulesReview.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/CoreV1EndpointPort.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CSIDriverSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2HorizontalPodAutoscalerStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2ResourceMetricSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Sysctl.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ValidatingWebhook.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1TokenReview.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1RollingUpdateStatefulSetStrategy.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta2PriorityLevelConfigurationReference.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1BoundObjectReference.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ConfigMapList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2NonResourcePolicyRule.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1StorageClass.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NamespaceList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CSISStorageCapacity.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1SubjectAccessReviewStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1VolumeAttachmentList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1TypedLocalObjectReference.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1AzureFileVolumeSource.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1RoleList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1IngressBackend.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CSISStorageCapacityList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodAntiAffinity.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1alpha1StorageVersionCondition.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CustomResourceColumnDefinition.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1UserInfo.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodTemplateSpec.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/NodeV1Api.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1WatchEvent.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Capabilities.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/CertificatesApi.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1IngressTLS.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1NodeConfigSource.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ScaleIOVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1alpha1ClusterCIDRSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PodIP.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/EventsApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1SecretKeySelector.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1FlowSchemaStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/StorageV1Api.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/ProgressResponseBody.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1DaemonSet.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1LimitRangeSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CSINode.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1LabelSelector.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2MetricIdentifier.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2beta2ResourceMetricSource.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ScopeSelector.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1CSISStorageCapacity.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ServicePort.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/CoordinationApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1StatefulSetUpdateStrategy.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta2ResourcePolicyRule.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1LabelSelectorRequirement.java
*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1VolumeAttachmentStatus.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1PodAffinity.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1SecretVolumeSource.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/AutoscalingV2beta2Api.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ContainerStateWaiting.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1OwnerReference.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/AppsApi.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1PersistentVolumeSpec.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1PodCondition.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1StatefulSetList.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ClusterRoleBindingList.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1TopologySelectorLabelRequirement.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/FlowcontrolApiserverV1beta2Api.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1GCEPersistentDiskVolumeSource.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1LocalObjectReference.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1Scale.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ServiceList.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/ServerVariable.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1SelfSubjectAccessReview.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1StatusCause.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V2beta2ObjectMetricStatus.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ContainerStateRunning.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1DaemonSetUpdateStrategy.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/RbacAuthorizationApi.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1NodeSystemInfo.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/AuthenticationApi.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1IPBlock.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/Configuration.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1Endpoints.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1Deployment.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1ContainerState.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1NodeSelectorTerm.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1SessionAffinityConfig.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V2beta2HorizontalPodAutoscalerCondition.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1alpha1StorageVersionList.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/ServerConfiguration.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/InternalApiserverV1alpha1Api.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1Overhead.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1Toleration.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1CSIDriverList.java
 *
 /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1FlexPersistentVolumeSource.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1NetworkPolicyPeer.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/apis/AuthenticationV1Api.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1CustomResourceDefinitionList.java
 * /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
 jar/io/kubernetes/client/openapi/models/V1GlusterfsPersistentVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodSecurityContext.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CinderVolumeSource.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/ApiregistrationV1Api.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1TopologySpreadConstraint.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1EndpointAddress.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1PriorityLevelConfigurationReference.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ConfigMapProjection.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CustomResourceDefinitionCondition.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2MetricSpec.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodDisruptionBudget.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1APIService.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1VolumeNodeResources.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1MutatingWebhookConfigurationList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1LimitRangeList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/PolicyApi.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/DiscoveryV1Api.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2PodsMetricStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1PriorityLevelConfigurationCondition.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ScaleStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/ApiClient.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ServiceStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1PriorityLevelConfigurationStatus.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1FlowDistinguisherMethod.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1APIResourceList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1RollingUpdateDaemonSet.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/BatchV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ReplicaSetSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodOS.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2MetricSpec.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ValidatingWebhookConfiguration.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1LimitResponse.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2HorizontalPodAutoscalerList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1Subject.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2ContainerResourceMetricStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1JobList.java
*
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* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NodeCondition.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1APIResource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ClusterRoleList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1DeploymentSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PodTemplateList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1SelfSubjectAccessReviewSpec.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1SubjectRulesReviewStatus.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/DiscoveryApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1LimitRangeItem.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2PodsMetricSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Lease.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1RBDVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1StorageOSVolumeSource.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1DownwardAPIVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ResourceAttributes.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Ingress.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1LocalVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1TokenReviewSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ObjectFieldSelector.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CSINodeList.java
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/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ContainerImage.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/NetworkingApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/PolicyV1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/AuthenticationV1TokenRequest.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1StatefulSet.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V2beta2HorizontalPodAutoscalerStatus.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1VolumeAttachmentSpec.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1alpha1ClusterCIDR.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/NodeApi.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CustomResourceDefinitionVersion.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CertificateSigningRequestStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ControllerRevision.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1ProjectedVolumeSource.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1SecurityContext.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1ServiceAccountSubject.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2HPAScalingRules.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2HorizontalPodAutoscalerList.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/RbacAuthorizationV1Api.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NodeDaemonEndpoints.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CephFSVolumeSource.java

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/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/ApisApi.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2HorizontalPodAutoscalerBehavior.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2PodsMetricSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2HorizontalPodAutoscalerCondition.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1GitRepoVolumeSource.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2Subject.java

*

/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1SELinuxOptions.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1LimitRange.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1Subject.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V2beta2ResourceMetricStatus.java

* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta2FlowDistinguisherMethod.java

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* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-jar/io/kubernetes/client/openapi/apis/VersionApi.java

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/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1Lifecycle.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1RoleBindingList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1beta1PolicyRulesWithSubjects.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1ObjectReference.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PodDNSConfig.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/apis/NetworkingV1alpha1Api.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1JobStatus.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1CustomResourceDefinitionNames.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1LeaseList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1AzureFilePersistentVolumeSource.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/openapi/models/V1PersistentVolumeClaimTemplate.java
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* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/PodMetrics.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/SuffixFormatter.java
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jar/io/kubernetes/client/custom/Quantity.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/IntOrString.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/V1Patch.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/BaseExponent.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/NodeMetrics.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/gson/V1StatusPreProcessor.java
*
/opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/common/KubernetesListObject.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/QuantityFormatException.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/common/KubernetesObject.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/NodeMetricsList.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/custom/ContainerMetrics.java
* /opt/cola/permits/1627240813_1680652285.1295514/0/client-java-api-18-0-0-sources-
jar/io/kubernetes/client/common/KubernetesType.java
```

1.142 client-java 18.0.0

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Found in path(s):

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/exception/ObjectTransformException.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/TransformFunc.java
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Found in path(s):

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/labels/Labels.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/ListenerWatcher.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/labels/SetMatcher.java

*

/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/apimachinery/NamespaceName.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/ProtoClient.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/ResyncRunnable.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/Cache.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/exception/TypeMetaReflectException.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/Strings.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/Streams.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/FilePersister.java

*

/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/CSRUtills.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/apimachinery/GroupVersion.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/credentials/ClientCertificateAuthentication.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/Namespaces.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/annotations/Annotations.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/ModelMapper.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/options/UpdateOptions.java

*

/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/monitoring/PrometheusInterceptor.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/CallGeneratorParams.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/apimachinery/KubernetesResource.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/Caches.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/ClientBuilder.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/Attach.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/exception/ObjectMetaReflectException.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/ConfigPersister.java

*

/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/Lister.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/DeltaFIFO.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/authenticators/AzureActiveDirectoryAuthenticator.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/exception/CSRNotApprovedException.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/apimachinery/GroupVersionResource.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/exception/CopyNotSupportedException.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/apimachinery/GroupVersionKind.java

*

/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/ReflectorRunnable.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/apimachinery/KubernetesVerb.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-

jar/io/kubernetes/client/util/taints/Taints.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/Discovery.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/labels/LabelSelector.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/ObjectAccessor.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/labels/LabelMatcher.java
*
/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/labels/EqualityMatcher.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/informer/ResourceEventHandler.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/apimachinery/KubernetesRequestDigest.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/monitoring/Monitoring.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/credentials/TokenFileAuthentication.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/informer/SharedInformer.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/KubernetesConstants.java
*
/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/generic/options/GetOptions.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/Watch.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/informer/SharedInformerFactory.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/authenticators/Authenticator.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/apimachinery/ParseKubernetesResourceException.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/SSLUtills.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/Watchable.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/informer/SharedIndexInformer.java
*
/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/ProxyContentTypeRequestBody.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/informer/impl/DefaultSharedIndexInformer.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/authenticators/GCPAuthenticator.java

* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/PodLogs.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/SharedProcessor.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/ProcessorListener.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/version/Version.java
*
/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/exception/BadNotificationException.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/credentials/KubeconfigAuthentication.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/options/CreateOptions.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/PortForward.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/EventType.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/Copy.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/Controller.java
*
/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/KubeConfig.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/GenericKubernetesApi.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/cache/Indexer.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/CallGenerator.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/Yaml.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/credentials/UsernamePasswordAuthentication.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/KubernetesApiResponse.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/Exec.java
*
/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/TypeAccessor.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/Metrics.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/options/ListOptions.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-

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jar/io/kubernetes/client/util/Config.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/authenticators/OpenIDConnectAuthenticator.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/credentials/Authentication.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/wait/Wait.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/WebSocketStreamHandler.java
*
/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/generic/options/PatchOptions.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/PatchUtils.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/TreeNode.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/informer/cache/Store.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/WebSockets.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/ListAccessor.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/exception/CSRSigningException.java
*
/opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/generic/options/DeleteOptions.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/conversion/Jobs.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/credentials/AccessTokenAuthentication.java
* /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-
jar/io/kubernetes/client/util/Threads.java
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Found in path(s):

- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/ApiInvocation.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/dynamic/Dynamics.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/okhttp/HTTP2ConsoleHandler.java
- *
- /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/credentials/DummyAuthentication.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/Preconditions.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/dynamic/DynamicKubernetesListObject.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/okhttp/HTTP2Logging.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/dynamic/DynamicKubernetesObject.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/dynamic/DynamicKubernetesTypeAdaptorFactory.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/generic/dynamic/DynamicKubernetesApi.java
- *
- /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/informer/exception/WatchExpiredException.java
- * /opt/cola/permits/1627240891_1681885684.1232157/0/client-java-18-0-0-sources-jar/io/kubernetes/client/util/RetryUtils.java

1.143 bucket4j-core 7.6.0

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- * /opt/cola/permits/1638858143_1681939858.809047/0/bucket4j-core-7-6-0-jar/META-INF/maven/com.github.vladimir-bukhtoyarov/bucket4j-core/pom.xml

1.144 client-java-api-fluent 18.0.0

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1.145 client-java-extended 18.0.0

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Found in path(s):

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlRollout.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/History.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/util/deployment/DeploymentHelper.java

*

/opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/PatchHelper.java

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Found in path(s):

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/leaderelection/LeaderElectionRecord.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/event/legacy/EventSink.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/workqueue/ratelimiter/ItemFastSlowRateLimiter.java

*

/opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/network/exception/NoAvailableAddressException.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/Kubectl.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/controller/DefaultController.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/event/legacy/LegacyEventBroadcaster.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/leaderelection/LeaderElectionConfig.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/workqueue/ratelimiter/BucketRateLimiter.java

*

/opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlScale.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/workqueue/ratelimiter/MaxOfRateLimiter.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/controller/builder/ControllerManagerBuilder.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/controller/LeaderElectingController.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/event/v1/EventSink.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlDrain.java

*

/opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/pager/Pager.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-

jar/io/kubernetes/client/extended/workqueue/ratelimiter/ItemExponentialFailureRateLimiter.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/kubectl/KubectlReplace.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/controller/builder/ControllerWatchBuilder.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/event/legacy/EventLogger.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/leaderelection/resourcelock/LeaseLock.java
 *
 /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/leaderelection/resourcelock/EndpointsLock.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/controller/DefaultControllerWatch.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/controller/reconciler/Result.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/network/RoundRobinLoadBalanceStrategy.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/kubectl/KubectlCopy.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/controller/builder/ControllerBuilder.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/event/legacy/EventSpamFilter.java
 *
 /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/kubectl/KubectlDelete.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/kubectl/KubectlGet.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/controller/Controllers.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/controller/reconciler/Request.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/kubectl/KubectlAnnotate.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/kubectl/KubectlPatch.java
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 /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/kubectl/KubectlTaint.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/event/legacy/EventAggregator.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/network/LoadBalancer.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/controller/reconciler/Reconciler.java
 * /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
 jar/io/kubernetes/client/extended/wait/Wait.java

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/event/legacy/ObjectReferenceResolvingEventRecorder.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlCreate.java
*
/opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/workqueue/DefaultWorkQueue.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/controller/ControllerManager.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/workqueue/WorkQueue.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlApiResources.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/controller/ControllerWatch.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/workqueue/DefaultRateLimitingQueue.java
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/opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlExec.java
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* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/event/legacy/EventRecorder.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/controller/builder/Constants.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlLabel.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/leaderelection/LeaderElector.java
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* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlVersion.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/leaderelection/resourceLock/ConfigMapLock.java
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* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/kubectl/KubectlTop.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/network/LoadBalanceStrategy.java
*
/opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-jar/io/kubernetes/client/extended/workqueue/RateLimitingQueue.java

```

* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
jar/io/kubernetes/client/extended/network/EndpointsLoadBalancer.java
* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
jar/io/kubernetes/client/extended/event/legacy/EventCorrelator.java
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jar/io/kubernetes/client/extended/workqueue/DelayingQueue.java
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* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
jar/io/kubernetes/client/extended/event/legacy/EventUtils.java
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* /opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
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jar/io/kubernetes/client/extended/event/legacy/EventBroadcaster.java
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jar/io/kubernetes/client/extended/kubectl/KubectlLog.java
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/opt/cola/permits/1638858954_1681454838.6563077/0/client-java-extended-18-0-0-sources-
jar/io/kubernetes/client/extended/controller/Controller.java

```

1.146 jackson-module-guice 2.14.2

1.146.1 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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```

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For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

Credits

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1.147 zstd 1.4.9

1.147.1 Available under license :

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Version 2, June 1991

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1.148 cloudevents-core 2.4.2

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```
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/extensions/DaterefExtension.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
```

jar/io/cloudevents/core/impl/CloudEventContextReaderAdapter.java
*
/opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/v03/CloudEventBuilder.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/impl/StringUtils.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/MessageReader.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/impl/BaseStructuredMessageReader.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/format/EventFormat.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/StructuredMessageReader.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/extensions/DistributedTracingExtension.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/v03/V1ToV03AttributesConverter.java
*
/opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/StructuredMessageWriter.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/CloudEventUtils.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/impl/MessageUtils.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/v1/CloudEventV1.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/v03/CloudEventV03.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/impl/BaseGenericBinaryMessageReaderImpl.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/impl/CloudEventReaderAdapter.java
*
/opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/Encoding.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/impl/BaseCloudEvent.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/format/EventDeserializationException.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/provider/ExtensionProvider.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/v1/CloudEventBuilder.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/MessageWriter.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/impl/BaseBinaryMessageReader.java


```
*
/opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/builder/CloudEventBuilder.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/provider/EventFormatProvider.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/format/EventSerializationException.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/impl/BaseCloudEventBuilder.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/v1/V03ToV1AttributesConverter.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/extensions/impl/ExtensionUtils.java
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-
jar/io/cloudevents/core/message/impl/GenericStructuredMessageReader.java
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```
* /opt/cola/permits/1652354871_1682361850.2061343/0/cloudevents-core-2-4-2-sources-jar/META-
INF/maven/io.cloudevents/cloudevents-core/pom.xml
```

1.149 cloudevents-json-jackson 2.4.2

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* /opt/cola/permits/1652354810_1682361837.3996675/0/cloudevents-json-jackson-2-4-2-sources-jar/META-INF/maven/io.cloudevents/cloudevents-json-jackson/pom.xml
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```
* /opt/cola/permits/1652354810_1682361837.3996675/0/cloudevents-json-jackson-2-4-2-sources-jar/io/cloudevents/jackson/JsonCloudEventData.java  
* /opt/cola/permits/1652354810_1682361837.3996675/0/cloudevents-json-jackson-2-4-2-sources-jar/io/cloudevents/jackson/CloudEventSerializer.java  
*  
/opt/cola/permits/1652354810_1682361837.3996675/0/cloudevents-json-jackson-2-4-2-sources-jar/io/cloudevents/jackson/JsonFormat.java  
* /opt/cola/permits/1652354810_1682361837.3996675/0/cloudevents-json-jackson-2-4-2-sources-jar/io/cloudevents/jackson/JsonFormatOptions.java  
* /opt/cola/permits/1652354810_1682361837.3996675/0/cloudevents-json-jackson-2-4-2-sources-jar/io/cloudevents/jackson/CloudEventDeserializer.java
```

1.150 cloudevents-api 2.4.2

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```
* /opt/cola/permits/1652354701_1682361811.5734987/0/cloudevents-api-2-4-2-jar/META-INF/maven/io.cloudevents/cloudevents-api/pom.xml
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1.151 cloudevents-kafka 2.4.2

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* /opt/cola/permits/1652354748_1682361804.7636983/0/cloudevents-kafka-2-4-2-sources-jar/io/cloudevents/kafka/impl/KafkaBinaryMessageReaderImpl.java

* /opt/cola/permits/1652354748_1682361804.7636983/0/cloudevents-kafka-2-4-2-sources-jar/io/cloudevents/kafka/CloudEventMessageSerializer.java

*

/opt/cola/permits/1652354748_1682361804.7636983/0/cloudevents-kafka-2-4-2-sources-jar/io/cloudevents/kafka/impl/KafkaProducerMessageWriterImpl.java

* /opt/cola/permits/1652354748_1682361804.7636983/0/cloudevents-kafka-2-4-2-sources-jar/io/cloudevents/kafka/KafkaMessageFactory.java

* /opt/cola/permits/1652354748_1682361804.7636983/0/cloudevents-kafka-2-4-2-sources-jar/io/cloudevents/kafka/CloudEventDeserializer.java

* /opt/cola/permits/1652354748_1682361804.7636983/0/cloudevents-kafka-2-4-2-sources-jar/io/cloudevents/kafka/impl/BaseKafkaMessageWriterImpl.java

* /opt/cola/permits/1652354748_1682361804.7636983/0/cloudevents-kafka-2-4-2-sources-jar/io/cloudevents/kafka/CloudEventMessageDeserializer.java

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-->

Found in path(s):

* /opt/cola/permits/1652354748_1682361804.7636983/0/cloudevents-kafka-2-4-2-sources-jar/META-INF/maven/io.cloudevents/cloudevents-kafka/pom.xml

1.152 jsr305 3.0.2

1.152.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/NotThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/Immutable.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/GuardedBy.java
```

1.153 micronaut-jackson-core 3.9.0

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Found in path(s):

```
* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
```

```
jar/io/micronaut/jackson/core/env/CloudFoundryVcapServicesPropertySourceLoader.java
* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/env/JsonPropertySourceLoader.java
*
/opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/env/package-info.java
* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/env/CloudFoundryVcapApplicationPropertySourceLoader.java
* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/parser/JacksonCoreProcessor.java
* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/env/EnvJsonPropertySourceLoader.java
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```
Found in path(s):
* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/tree/TreeGenerator.java
* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/tree/JsonNodeTreeCodec.java
* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/tree/JsonStreamTransfer.java
*
/opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-
jar/io/micronaut/jackson/core/tree/JsonNodeTraversingParser.java
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```
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```

* /opt/cola/permits/1668044414_1683573108.7781656/0/micronaut-jackson-core-3-9-0-sources-jar/META-INF/native-image/io.micronaut/micronaut-jackson-core/native-image.properties

1.154 micronaut-http-server-netty 3.9.0

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* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/binders/InputStreamBodyBinder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/AbstractHttpMessageLogElement.java

*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RequestLineElement.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/binders/NettyBinderRegistrar.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/multipart/NettyPartData.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/types/NettyCustomizableResponseType.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RemoteIpElementBuilder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/LogElement.java

*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/AbstractHttpContentProcessor.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/HeaderElement.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/types/files/FileTypeHandlerConfiguration.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RequestProtocolElementBuilder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/multipart/MultipartBodyArgumentBinder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RemoteHostElement.java

*

/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/BytesSentElementBuilder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/HttpContentProcessorResolver.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/NettyHttpResponseFactory.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/DateTimeElement.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/LogElementBuilder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/jackson/JsonContentProcessor.java

*

/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/NettyRequestArgumentSatisfier.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/LocalHostElement.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/DefaultHttpContentProcessor.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RequestUriElementBuilder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/ssl/package-info.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/MicronautHttpPostMultipartRequestDecoder.java

*

/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/ElapseTimeElementBuilder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/ResponseCodeElementBuilder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/CookieElementBuilder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/binders/CompletableFutureBodyBinder.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/types/NettyCustomizableResponseTypeHandler.java

*

/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/ElapseTimeElement.java

* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/binders/PublisherBodyBinder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/multipart/NettyFileUploadInputStream.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/LocalPortElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/FormDataHttpContentSubscriberFactory.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RequestProtocolElement.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/LocalPortElementBuilder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/RoutingInBoundHandler.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/ConstantElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RequestUriElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RequestMethodElementBuilder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RequestLineElementBuilder.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/decoders/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/ChannelOutboundHandlerFactory.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/CookiesElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/jackson/JsonViewMediaTypeCodecFactory.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/ResponseCodeElement.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/encoders/HttpResponseEncoder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/jackson/JsonViewServerFilter.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/BytesSentElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/multipart/NettyCompletedFileUpload.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/multipart/package-info.java
*

/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/HttpCompressionStrategy.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RequestMethodElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/CookieElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/types/NettyFileCustomizableResponseType.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/ssl/HttpRequestCertificateHandler.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/types/DefaultCustomizableResponseTypeHandlerRegistry.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/LocalIpElementBuilder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/DefaultHttpCompressionStrategy.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/configuration/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/types/files/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/LocalIpElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/DelegateHttpResponse.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/DelegateHttpMessage.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/HeadersElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/websocket/NettyServerWebSocketHandler.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/async/ContextCompletionAwareSubscriber.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/async/package-info.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/HttpContentProcessor.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/DelegateStreamedHttpResponse.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/LocalHostElementBuilder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/DefaultHttpContentProcessorResolver.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-

jar/io/micronaut/http/server/netty/converters/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/HeaderElementBuilder.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/ssl/ServerSslBuilder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/AccessLogFormatParser.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/types/NettyCustomizableResponseTypeHandlerRegistry.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/SmartHttpContentCompressor.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/websocket/NettyServerWebSocketUpgradeHandler.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/HttpDataReference.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/AbstractBufferingHttpContentProcessor.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/websocket/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/types/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/binders/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/NettyHttpRequest.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/multipart/NettyStreamingFileUpload.java
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/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/jackson/JsonViewCodecResolver.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/HttpContentSubscriberFactory.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/encoders/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/RemoteIpElement.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/converters/NettyConverters.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/ByteBufDelegate.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/handler/accesslog/element/DateTimeElementBuilder.java
*
/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/NettyEmbeddedServerInstance.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-

jar/io/micronaut/http/server/netty/FormDataHttpContentProcessor.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/types/files/FileTypeHandler.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/multipart/NettyCompletedAttribute.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/types/files/NettySystemFileCustomizableResponseType.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/jackson/JsonHttpContentSubscriberFactory.java
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/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/types/files/NettyStreamedFileCustomizableResponseType.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/decoders/HttpRequestDecoder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/jackson/package-info.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/handler/accesslog/element/RemoteHostElementBuilder.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
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* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
jar/io/micronaut/http/server/netty/ServerAttributeKeys.java

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jar/io/micronaut/http/server/netty/types/stream/NettyStreamedCustomizableResponseType.java

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jar/io/micronaut/http/server/netty/handler/accesslog/element/NotImplementedElementBuilder.java

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* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/DefaultNettyEmbeddedServerFactory.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/NettyEmbeddedServices.java
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/opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/NettyEmbeddedServer.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-jar/io/micronaut/http/server/netty/HttpToHttpsRedirectHandler.java
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jar/io/micronaut/http/server/netty/NettyHttpServer.java
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jar/io/micronaut/http/server/netty/NettyServerCustomizer.java
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jar/io/micronaut/http/server/netty/ssl/SslEnabledCondition.java
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jar/io/micronaut/http/server/netty/configuration/NettyHttpServerConfiguration.java
* /opt/cola/permits/1668044703_1683573272.0863874/0/micronaut-http-server-netty-3-9-0-sources-
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1.155 micronaut-context 3.9.0

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jar/io/micronaut/runtime/converters/reactive/ReactiveTypeConverterRegistrar.java
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*MapClaims.java
* Note: rewritten to standard Java 8 DateTime by zemiak (c) 2016
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- /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/executor/package-info.java
- * /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/io/watch/FileWatchConfiguration.java
- * /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/runtime/converters/time/package-info.java
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- * /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/io/watch/event/package-info.java
- * /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/runtime/context/scope/package-info.java
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- /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/annotation/package-info.java
- * /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/runtime/server/event/package-info.java
- * /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-

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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/executor/UserExecutorConfiguration.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
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*
/opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/event/AbstractEmbeddedApplicationEvent.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/instrument/InvocationInstrumenterWrappedCallable.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/context/scope/Refreshable.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/exceptions/package-info.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/TaskScheduler.java
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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
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jar/io/micronaut/scheduling/package-info.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/converters/reactive/package-info.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/io/watch/event/WatchEventType.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/event/ApplicationShutdownEvent.java
*
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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/event/package-info.java

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* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/instrument/ExecutorServiceInstrumenter.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/executor/ExecutorType.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/executor/ExecutorConfiguration.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/io/watch/WatchServiceFactory.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/async/AsyncInterceptor.java
*
/opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/runtime/context/scope/refresh/package-info.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/io/watch/FileWatchCondition.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/annotation/Schedules.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/scheduling/TaskExceptionHandler.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/runtime/context/env/ConfigurationIntroductionAdvice.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-jar/io/micronaut/runtime/exceptions/ApplicationStartupException.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-

jar/io/micronaut/runtime/context/env/package-info.java
*
/opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/server/package-info.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/EmbeddedApplication.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/context/scope/ThreadLocalCustomScope.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/annotation/Async.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/instrument/NoopInstrumentation.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/processor/ScheduledMethodProcessor.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/instrument/RunnableInstrumenter.java
*
/opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/instrument/InstrumentedExecutorService.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/executor/NamedThreadFactory.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/instrument/Instrumentation.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/Micronaut.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/server/event/ServerShutdownEvent.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/event/annotation/EventListener.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/exceptions/TaskExecutionException.java
*
/opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/annotation/Scheduled.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/exceptions/SchedulerConfigurationException.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/converters/time/TimeConverterRegistrar.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/io/watch/package-info.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/runtime/context/scope/ThreadLocal.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/NextFireTime.java
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-
jar/io/micronaut/scheduling/executor/ExecutorFactory.java
*

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/opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-  
jar/io/micronaut/scheduling/instrument/package-info.java  
* /opt/cola/permits/1668044500_1683573443.771979/0/micronaut-context-3-9-0-sources-  
jar/io/micronaut/runtime/server/EmbeddedServer.java
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1.156 micronaut-jackson-databind 3.9.0

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jar/io/micronaut/jackson/JacksonDatabindFeature.java  
* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-  
jar/io/micronaut/jackson/ResilientBeanDeserializerFactory.java
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* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/codecs/package-info.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/codecs/JsonStreamMediaTypeCodec.java

*

/opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/ConvertibleValuesSerializer.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/codecs/JacksonFeatures.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/modules/package-info.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/annotation/JacksonFeatures.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/package-info.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/parser/JacksonProcessor.java

*

/opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/ResourceDeserializerModifier.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/annotation/package-info.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/databind/convert/package-info.java

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* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/ResourceModule.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/ResourceSerializerModifier.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/OptionalValuesSerializer.java

*

/opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/modules/BeanIntrospectionModule.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/JacksonObjectSerializer.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/codecs/JsonMediaTypeCodec.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/env/JsonPropertySourceLoader.java

* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/ConvertibleMultiValuesSerializer.java

```
* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/databind/convert/ObjectNodeConvertibleValues.java
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```
* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/JacksonConfiguration.java
```

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* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/databind/DatabindPropertyBinderExceptionHandler.java
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/opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/databind/JacksonDatabindMapper.java
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```
* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/ObjectMapperFactory.java
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* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/JsonNodeDeserializer.java
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```
* /opt/cola/permits/1668044775_1683573175.8444219/0/micronaut-jackson-databind-3-9-0-sources-jar/io/micronaut/jackson/serialize/JsonNodeSerializer.java
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1.157 micronaut-core-reactive 3.9.0

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* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-jar/io/micronaut/core/async/annotation/SingleResult.java

* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-jar/io/micronaut/core/async/subscriber/Emitter.java

*

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* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-jar/io/micronaut/core/async/subscriber/SingleThreadedBufferingSubscriber.java

* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-jar/io/micronaut/core/async/processor/SingleSubscriberProcessor.java

* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-jar/io/micronaut/core/async/processor/SingleThreadedBufferingProcessor.java

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* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-jar/io/micronaut/core/async/publisher/AsyncSingleResultPublisher.java

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* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-
jar/io/micronaut/core/async/package-info.java
* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-
jar/io/micronaut/core/async/subscriber/Completable.java
* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-
jar/io/micronaut/core/async/publisher/CompletableFuturePublisher.java
* /opt/cola/permits/1668044626_1683573159.5268834/0/micronaut-core-reactive-3-9-0-sources-
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1.158 micronaut-http-client-core 3.9.0

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- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/LoadBalancerResolver.java
- *
- /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/filters/package-info.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/filters/ClientServerRequestTracingPublisher.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/loadbalance/LoadBalancerConverters.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/HttpClientRegistry.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/bind/AnnotatedClientRequestBinder.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/exceptions/ReadTimeoutException.java
- *
- /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/exceptions/HttpClientResponseException.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/loadbalance/ServiceInstanceListRoundRobinLoadBalancer.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/HttpClientConfiguration.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/multipart/Part.java
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- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/DefaultLoadBalancerResolver.java
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- /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/multipart/StringPart.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/loadbalance/DiscoveryClientLoadBalancerFactory.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/multipart/package-info.java
- * /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/multipart/BytePart.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/BlockingHttpClient.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/sse/SseClient.java

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/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/exceptions/HttpClientException.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/interceptor/configuration/package-info.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/ProxyHttpClientRegistry.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/bind/HttpClientBinderRegistry.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/interceptor/configuration/NamedClientVersioningConfiguration.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/ProxyHttpClient.java

*

/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/LoadBalancer.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/interceptor/configuration/DefaultClientVersioningConfiguration.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/loadbalance/FixedLoadBalancer.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/loadbalance/ServiceInstanceListLoadBalancerFactory.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/multipart/MultipartDataFactory.java

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*

/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/exceptions/package-info.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/exceptions/HttpClientErrorDecoder.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/filter/ClientFilterResolutionContext.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/exceptions/ContentLengthExceededException.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/ServiceHttpClientFactory.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/bind/TypedClientArgumentRequestBinder.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/bind/AnnotatedClientArgumentRequestBinder.java

*

/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/interceptor/HttpClientIntroductionAdvice.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/sse/SseClientRegistry.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/StreamingHttpClientRegistry.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/bind/ClientArgumentRequestBinder.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/bind/DefaultHttpClientBinderRegistry.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/multipart/FilePart.java
*
/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/annotation/Client.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/ReactiveClientResultTransformer.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/bind/ClientRequestUriContext.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/filters/ClientServerContextFilter.java
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* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/filter/DefaultHttpClientFilterResolver.java
*
/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/interceptor/configuration/ClientVersioningConfiguration.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/ServiceHttpClientCondition.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/loadbalance/DiscoveryClientRoundRobinLoadBalancer.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/ServiceHttpClientConfiguration.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/multipart/MultipartBody.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/loadbalance/package-info.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/exceptions/EmptyResponseException.java
*
/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/loadbalance/AbstractRoundRobinLoadBalancer.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/interceptor/package-info.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/multipart/InputStreamPart.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-

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* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/sse/package-info.java

* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-jar/io/micronaut/http/client/HttpClientFactoryResolver.java

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/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/bind/binders/AttributeClientRequestBinder.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/StreamingHttpClientFactory.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/sse/SseClientFactory.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/bind/binders/VersionClientRequestBinder.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/StreamingHttpClientFactoryResolver.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/sse/SseClientFactoryResolver.java
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/opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/bind/binders/HeaderClientRequestBinder.java
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jar/io/micronaut/http/client/bind/binders/QueryValueClientArgumentRequestBinder.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/bind/ClientRequestBinder.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/ProxyHttpClientFactoryResolver.java
* /opt/cola/permits/1668044549_1683573278.4803054/0/micronaut-http-client-core-3-9-0-sources-
jar/io/micronaut/http/client/ProxyHttpClientFactory.java

```

1.159 micronaut-buffer-netty 3.9.0

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jar/io/micronaut/buffer/netty/package-info.java
* /opt/cola/permits/1668044492_1683573372.528242/0/micronaut-buffer-netty-3-9-0-sources-
jar/io/micronaut/buffer/netty/NettyByteBuffer.java
* /opt/cola/permits/1668044492_1683573372.528242/0/micronaut-buffer-netty-3-9-0-sources-
jar/io/micronaut/buffer/netty/NettyFeature.java
*
/opt/cola/permits/1668044492_1683573372.528242/0/micronaut-buffer-netty-3-9-0-sources-
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* /opt/cola/permits/1668044492_1683573372.528242/0/micronaut-buffer-netty-3-9-0-sources-
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1.160 micronaut-http-server 3.9.0

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* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/util/package-info.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/cors/package-info.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/cors/CorsUtil.java
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* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/util/DefaultHttpHostResolver.java
*
/opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/types/files/SystemFile.java
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* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/util/locale/HttpFixedLocaleResolver.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/cors/CorsFilter.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/exceptions/UnsatisfiedArgumentHandler.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/exceptions/ConversionErrorHandler.java
*
/opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/binding/RequestArgumentSatisfier.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/websocket/ServerWebSocketProcessor.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/HttpServerConfiguration.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/codec/package-info.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/context/package-info.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/exceptions/HttpStatusHandler.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/exceptions/URISyntaxHandler.java
*
/opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/binding/LocaleArgumentBinder.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/types/CustomizableResponseTypeException.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/multipart/MultipartBody.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/exceptions/ServerStartupException.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/package-info.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/types/files/FileCustomizableResponseType.java
*
/opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/exceptions/InternalServerException.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/util/locale/HttpLocaleResolver.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/codec/TextStreamCodec.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/util/locale/package-info.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-jar/io/micronaut/http/server/exceptions/package-info.java

```
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/context/ServerRequestContextInvocationInstrumenter.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/util/locale/HttpLocaleResolutionConfiguration.java
*
/opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/cors/CorsOriginConverter.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/util/HttpHostResolver.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/exceptions/UnsatisfiedRouteHandler.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/multipart/package-info.java
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```

```
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*/
```

Found in path(s):

```
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/util/locale/HttpLocalizedMessageSource.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/cors/CrossOriginUtil.java
* /opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/cors/CrossOrigin.java
*
/opt/cola/permits/1668044516_1683573495.1153107/0/micronaut-http-server-3-9-0-sources-
jar/io/micronaut/http/server/exceptions/response/HateoasErrorResponseProcessorReplacement.java
```

1.161 micronaut-inject 3.9.0

1.161.1 Available under license :

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

```
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 */
```

Found in path(s):

```
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/exceptions/ConfigurationException.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/scope/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/DefaultOriginatingElements.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/AbstractBeanDefinitionReference.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/BeanDefinitionVisitor.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/AbstractBeanConfiguration.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ast/ElementModifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ParametrizedBeanFactory.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/DirectoryClassWriterOutputVisitor.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/ActiveEnvironment.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ast/ArrayableClassElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ast/ElementQuery.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/EachBean.java
```

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/processing/JavaModelUtils.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/exceptions/NoSuchMessageException.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/CallableInjectionPoint.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractBeanContextConditional.java
 *
 /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/beans/AbstractExecutableBeanMethod.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/BeanRegistration.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/BeanFactory.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/AbstractAnnotationMetadataBuilder.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/processing/ProcessedTypes.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ArgumentBeanType.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/util/VisitorContextUtils.java
 *
 /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/DefaultBeanResolutionContext.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/EnumConstantElement.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/EnumElement.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/event/ApplicationEventListener.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/beans/visitor/jakarta/persistence/JakartaMappedSuperClassIntrospectionMapper.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/ConfigurationProperties.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractInitializableBeanDefinition.java
 *
 /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/BeanLocator.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/PropertySourceReader.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/banner/ResourceBanner.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/AbstractClassFileWriter.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-

jar/io/micronaut/context/condition/OperatingSystem.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/beans/visitor/JsonCreatorAnnotationMapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/configuration/ConfigurationMetadataBuilder.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/condition/Condition.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/AnnotationMetadataException.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ast/ReflectParameterElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/qualifiers/TypeAnnotationQualifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/StaticOriginatingElements.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/RequiresCondition.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/configuration/package-info.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/EnvironmentAnnotationMetadata.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/scope/CustomScopeRegistry.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/processor/ExecutableMethodProcessor.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/exceptions/NonUniqueBeanException.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/ComputePlatform.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/beans/visitor/IntrospectedTypeElementVisitor.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/qualifiers/TypeArgumentQualifier.java
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jar/io/micronaut/inject/annotation/PackageRenameRemapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/EnvironmentAwareArgument.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/BeanDefinitionRegistry.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/BeanIdentifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/qualifiers/CompositeQualifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/MethodInjectionPoint.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/GeneratedFile.java

*

/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractExecutableMethod.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/DefaultMethodConstructorInjectionPoint.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/ProviderUtils.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/internal/FindBugsRemapper.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/BeanDefinitionWriter.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/qualifiers/Qualified.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Aliases.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/PropertyPlaceholderResolver.java

*

/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/AnnotationMetadataSupport.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/validation/BeanDefinitionValidator.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/InjectionPoint.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/MethodReference.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/DefaultFieldInjectionPoint.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/event/BeanEvent.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/MissingMethodInjectionPoint.java

*

/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Bean.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/ReflectClassElement.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/proxy/InterceptedBeanProxy.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/ElementFactory.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/NamedAnnotationTransformer.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/AbstractPropertySourceLoader.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-

jar/io/micronaut/context/MessageSource.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/Factory.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/internal/KotlinNotNullMapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/qualifiers/ClosestTypeArgumentQualifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/BeanDefinitionMethodReference.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ast/TypedElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/ExecutableMethodsDefinitionWriter.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/ApplicationContextBuilder.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/EmptyPropertySource.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/BeanContextConditional.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/Configuration.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/Provided.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/SystemPropertiesPropertySource.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/CommandLinePropertySource.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/AnnotationProcessorListener.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ValidatedBeanDefinition.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/InitializingBeanDefinition.java

*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/qualifiers/QualifierUtils.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/visitor/VisitorConfiguration.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ast/FieldElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/event/BeanCreatedEventListener.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/DefaultApplicationBuilder.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/EnvironmentPropertySource.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ConstructorInjectionPoint.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/DefaultBeanDefinitionMethodReference.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/PropertiesPropertySourceLoader.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/qualifiers/AnnotationQualifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/yaml/YamlPropertySourceLoader.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/BeanResolutionContext.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/Qualifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/event/StartupEvent.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/beans/visitor/EntityIntropectedAnnotationMapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/DefaultBeanIdentifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/DelegatingBeanDefinition.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ExecutableMethod.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/DefaultAnnotationMetadata.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/exceptions/package-info.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/internal/TimedAnnotationMapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/BeanContext.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/qualifiers/Qualifiers.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/MemberElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/AnnotatedElementValidator.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Secondary.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/PropertyElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/qualifiers/NameQualifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/ConfigBuilderState.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/AbstractClassWriterOutputVisitor.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/exceptions/CircularDependencyException.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/DefaultEnvironment.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/AnnotationMetadataReference.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/qualifiers/AnnotationStereotypeQualifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/PropertySource.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/DefaultImplementation.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/ParameterElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/ClassGenerationException.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Property.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/util/KotlinExecutableMethodUtils.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/yaml/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-

jar/io/micronaut/context/annotation/Type.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/EnvironmentAnnotationValue.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/BeanDefinitionDelegate.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/converters/ContextConverterRegistrar.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/BootstrapPropertySourceLocator.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/AnnotationRemapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/ConfigurationReader.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/exceptions/MessageUtils.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/converters/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/BeanConfiguration.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/condition/Failure.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/DefaultScope.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/MapPropertySource.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/BeanDefinitionReference.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/SingletonScope.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/DefaultApplicationContext.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/ast/ConstructorElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/visitor/VisitorContext.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/ClassWriterOutputVisitor.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/AnnotationMapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/condition/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/beans/visitor/jakarta/persistence/JakartaEntityIntrospectedAnnotationMapper.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/PrimitiveElement.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/ApplicationContextLifeCycle.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/visitor/TypeElementVisitor.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractInitializableBeanDefinitionReference.java
 *
 /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/EnvironmentConfigurable.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/yaml/CustomSafeConstructor.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/MethodExecutionHandle.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/configuration/PropertyMetadata.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/PropertySourceLoader.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ExecutionHandle.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/condition/ConditionContext.java
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 /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/ClassElement.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/DefaultConditionContext.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/banner/MicronautBanner.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Value.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/configuration/ConfigurationMetadata.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/BeanDefinitionReferenceWriter.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/ApplicationContextProvider.java
 *
 /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractExecutable.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/BeanContextConfiguration.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/Element.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/ExecutableMethodWriter.java
 * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-

jar/io/micronaut/context/annotation/BootstrapContextCompatible.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/AbstractBeanResolutionContext.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/ConfigurationBuilder.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/internal/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/NamedAnnotationMapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/Parallel.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/event/BeanInitializedEventListener.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/internal/KotlinNullableMapper.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/OriginatingElements.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/DefaultConstructorInjectionPoint.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/Executable.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/PropertySource.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/event/BeanInitializingEvent.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/processing/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/Prototype.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/exceptions/BeanContextException.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/condition/TrueCondition.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/AdvisedBeanType.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/PropertySourcePropertyResolver.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/exceptions/DisabledBeanException.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/DisposableBeanDefinition.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/EnvironmentConvertibleValuesMap.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/MutableAnnotationMetadata.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/beans/package-info.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/beans/visitor/MappedSuperClassIntrospectionMapper.java

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/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/package-info.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/BeanConfigurationWriter.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Requirements.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/ReflectionFieldInjectionPoint.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/exceptions/DependencyInjectionException.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/BeanDefinition.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/configuration/ConfigurationMetadataWriter.java

*

/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Context.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/banner/Banner.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractMessageSource.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/event/BeanContextEvent.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/TypedAnnotationMapper.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/MethodElement.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/AnnotationMetadataWriter.java

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/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/AbstractAnnotationMetadataWriter.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ArgumentInjectionPoint.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/PropertySourceLocator.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/StaticMessageSource.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Primary.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/processor/BeanDefinitionProcessor.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-

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jar/io/micronaut/context/DefaultMethodInjectionPoint.java
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/LifeCycle.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/DefaultMessageContext.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/event/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/AbstractEnvironmentAnnotationMetadata.java
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/ConfigurationInject.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/EachProperty.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/ReflectionMethodInjectionPoint.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/DefaultPropertyPlaceholderResolver.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractParametrizedBeanDefinition.java
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/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractBeanDefinition.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/event/ApplicationEventPublisher.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/processor/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/ExecutionHandleLocator.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/Replaces.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/AliasFor.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/provider/package-info.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/FileBackedGeneratedFile.java
*

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/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/env/Environment.java
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jar/io/micronaut/context/annotation/Parameter.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/event/BeanCreatedEvent.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/event/NoOpApplicationEventPublisher.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/annotation/Infrastructure.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/annotation/AbstractAnnotationMetadata.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/ApplicationContext.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/BeanType.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/beans/visitor/BeanIntrospectionWriter.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/event/ApplicationEvent.java
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/META-INF/native-
image/io.micronaut/micronaut-inject/native-image.properties
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```


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- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/DispatchWriter.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/qualifiers/ExactTypeArgumentNameQualifier.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/InjectScope.java
- *
- /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/beans/InjectableElement.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/internal/JakartaPostConstructTransformer.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/DefaultElementQuery.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/GenericPlaceholderElement.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/qualifiers/NoneQualifier.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractConstructorInjectionPoint.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/visitor/package-info.java
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- /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/beans/BeanMethodElement.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/beans/BeanElementBuilder.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/provider/AbstractProviderDefinition.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/event/BeanPreDestroyEvent.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractExecutableMethodsDefinition.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/SimpleClassElement.java
- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/CachedEnvironment.java
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- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/qualifiers/RepeatableAnnotationQualifier.java
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- * /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-

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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/beans/visitor/EntityReflectiveAccessAnnotationMapper.java
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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/annotation/NonBinding.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/ConstantPropertySources.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/event/BeanDestroyedEventListener.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/visitor/ContextConfigurerVisitor.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/ReflectWildcardElement.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/SimplePackageElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/WildcardElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/ast/ReflectGenericPlaceholderElement.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/KubernetesEnvironmentPropertySource.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/qualifiers/PrimaryQualifier.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/writer/AbstractBeanDefinitionBuilder.java

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* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/NoInjectionBeanDefinition.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/BeanDisposingRegistration.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/LocalizedMessageSource.java

*

/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/inject/annotation/AnnotationConvertersRegistrar.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/DefaultBeanContext.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/PropertyExpressionResolver.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/env/yaml/ConstructIsoTimestampString.java

* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-jar/io/micronaut/context/AbstractLocalizedMessageSource.java

```
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/ClassOutputWriter.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/MessageSourceUtils.java
*
/opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/RuntimeBeanDefinition.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/inject/writer/BeanClassWriter.java
* /opt/cola/permits/1668044430_1683573453.5571105/0/micronaut-inject-3-9-0-sources-
jar/io/micronaut/context/DefaultRuntimeBeanDefinition.java
```

1.162 micronaut-json-core 3.9.0

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```
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-
jar/io/micronaut/json/JsonStreamConfig.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-
jar/io/micronaut/json/tree/JsonNumber.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-
jar/io/micronaut/json/tree/JsonObject.java
*
/opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-
jar/io/micronaut/json/tree/JsonNode.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-
jar/io/micronaut/json/tree/JsonArray.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-
jar/io/micronaut/json/tree/JsonContainer.java
```

* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/tree/JsonString.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/JsonFeatures.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/convert/JsonConverterRegistrar.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/tree/JsonScalar.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/bind/JsonBeanPropertyBinderExceptionHandler.java
*

/opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/JsonMapper.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/tree/JsonBoolean.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/tree/JsonNull.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/JsonConfiguration.java

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* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/codec/JsonMediaTypeCodec.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/convert/JsonNodeConvertibleValues.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/codec/MapperMediaTypeCodec.java
*

/opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-jar/io/micronaut/json/JsonObjectSerializer.java

* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-

```
jar/io/micronaut/json/codec/JsonStreamMediaTypeCodec.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-
jar/io/micronaut/json/bind/package-info.java
* /opt/cola/permits/1668044616_1683573167.477246/0/micronaut-json-core-3-9-0-sources-
jar/io/micronaut/json/bind/JsonBeanPropertyBinder.java
```

1.163 micronaut-core 3.9.0

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* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/WebSocketClientFactoryResolver.java

* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/WebSocketPongMessage.java

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* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/annotation/ClientWebSocket.java

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* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/bind/WebSocketStateBinderRegistry.java

* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/exceptions/WebSocketException.java

* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/exceptions/WebSocketSessionException.java

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* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/annotation/OnClose.java

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/opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/event/WebSocketSessionClosedEvent.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/CloseReason.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/WebSocketSession.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/annotation/WebSocketComponent.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/context/WebSocketBean.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/context/package-info.java
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* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/annotation/ServerWebSocket.java
*
/opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/WebSocketClientRegistry.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/event/WebSocketMessageProcessedEvent.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/package-info.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/annotation/WebSocketMapping.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/exceptions/package-info.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/context/WebSocketBeanRegistry.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/bind/WebSocketStateBinder.java
*
/opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/interceptor/WebSocketSessionAware.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/annotation/OnError.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/bind/WebSocketState.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/WebSocketVersion.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/exceptions/WebSocketClientException.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/event/WebSocketSessionOpenEvent.java
*
/opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-jar/io/micronaut/websocket/WebSocketBroadcaster.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-

```
jar/io/micronaut/websocket/annotation/OnMessage.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-
jar/io/micronaut/websocket/bind/package-info.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-
jar/io/micronaut/websocket/interceptor/package-info.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-
jar/io/micronaut/websocket/interceptor/ClientWebSocketInterceptor.java
* /opt/cola/permits/1668044398_1683573363.5649023/0/micronaut-websocket-3-9-0-sources-
jar/io/micronaut/websocket/WebSocketClient.java
```

1.165 micronaut-security-annotations 3.11.0

1.165.1 Available under license :

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

```
/*
* Copyright 2017-2020 original authors
*
* Licensed 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
*
* 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/1668044768_1683573406.2117765/0/micronaut-security-annotations-3-11-0-sources-
jar/io/micronaut/security/annotation/package-info.java
* /opt/cola/permits/1668044768_1683573406.2117765/0/micronaut-security-annotations-3-11-0-sources-
jar/io/micronaut/security/annotation/JakartaRolesAllowedAnnotationMapper.java
*
/opt/cola/permits/1668044768_1683573406.2117765/0/micronaut-security-annotations-3-11-0-sources-
jar/io/micronaut/security/annotation/PermitAllAnnotationMapper.java
* /opt/cola/permits/1668044768_1683573406.2117765/0/micronaut-security-annotations-3-11-0-sources-
jar/io/micronaut/security/annotation/DenyAllAnnotationMapper.java
* /opt/cola/permits/1668044768_1683573406.2117765/0/micronaut-security-annotations-3-11-0-sources-
jar/io/micronaut/security/annotation/RolesAllowedAnnotationMapper.java
* /opt/cola/permits/1668044768_1683573406.2117765/0/micronaut-security-annotations-3-11-0-sources-
jar/io/micronaut/security/annotation/JakartaPermitAllAnnotationMapper.java
* /opt/cola/permits/1668044768_1683573406.2117765/0/micronaut-security-annotations-3-11-0-sources-
jar/io/micronaut/security/annotation/Secured.java
```

* /opt/cola/permits/1668044768_1683573406.2117765/0/micronaut-security-annotations-3-11-0-sources-jar/io/micronaut/security/annotation/JakartaDenyAllAnnotationMapper.java

1.166 micronaut-http 3.9.0

1.166.1 Available under license :

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

```
/*
 * Copyright 2017-2021 original authors
 *
 * Licensed 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
 *
 * 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/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/PushCapableHttpRequest.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/filter/FilterPatternStyle.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/util/HttpTypeInformationProvider.java
*
```

```
/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/cookie/SameSiteConverter.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/ssl/AbstractClientSslConfiguration.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/bind/binders/HttpCoroutineContextFactory.kt
No license file was found, but licenses were detected in source scan.
```

```
# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
```

```

# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1810121&view=co
#
# MIME type (lowercased) Extensions
# =====
# application/1d-interleaved-parityfec
#
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset ez
# application/applefile
application/applixware aw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml atomsvc
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
#
# application/cals-1840
# application/cbor

```


application/ccmp+xml
application/ccxml+xml ccxml
application/cdfx+xml
application/cdmi-capability cdmia
application/cdmi-container cdmic
application/cdmi-domain cdmid
application/cdmi-object cdmio
application/cdmi-queue cdmioq
application/cdni
application/cea
application/cea-2018+xml
application/cellml+xml
application/cfw
application/cms
application/cnrx+xml
application/coap-group+json
application/commonground
application/conference-info+xml
application/cpl+xml
application/csrattrs
application/csta+xml
application/cstadata+xml
application/csvm+json
application/cu-seeme cu
application/cybercash
application/dash+xml
application/dashdelta
application/davmount+xml davmount
application/dca-rft
application/dcd
application/dec-dx
application/dialog-info+xml
application/dicom
application/dii
application/dit
application/dns
application/docbook+xml dbk
application/dskpp+xml
application/dssc+der dssc
application/dssc+xml xdssc

application/dvcs
application/ecmascript ecma
application/edi-consent
application/edi-x12
application/edifact
application/efi
application/emergencycalldata.comment+xml

application/emergencycalldata.deviceinfo+xml
application/emergencycalldata.providerinfo+xml
application/emergencycalldata.serviceinfo+xml
application/emergencycalldata.subscriberinfo+xml
application/emma+xml emma
application/emotionml+xml
application/encaprtp
application/epp+xml
application/epub+zip epub
application/eshop
application/example
application/exi exi
application/fastinfoset
application/fastsoap
application/fdt+xml
application/fits
application/font-tdpfr pfr
application/framework-attributes+xml
application/geo+json
application/gml+xml gml
application/gpx+xml gpx
application/gxf gxf
application/gzip
application/h224
application/held+xml
application/http
application/hyperstudio stk

application/ibe-key-request+xml
application/ibe-pkg-reply+xml
application/ibe-pp-data
application/iges
application/im-iscomposing+xml
application/index
application/index.cmd
application/index.obj
application/index.response
application/index.vnd
application/inkml+xml ink inkml
application/iotp
application/ipfix ipfix
application/ipp
application/isup
application/its+xml
application/java-archive jar
application/java-serialized-object ser
application/java-vm class
application/javascript js

application/javascript mjs
application/jose
application/jose+json
application/jrd+json
application/json json
application/json-patch+json
application/json-seq
application/jsonml+json jsonml
application/jwk+json
application/jwk-set+json
application/jwt
application/kpml-request+xml
application/kpml-response+xml
application/ld+json
application/lgr+xml
application/link-format
application/load-control+xml
application/lost+xml lostxml

application/lostsync+xml
application/lxf
application/mac-binhex40 hqx
application/mac-compactpro cpt
application/macwriteii
application/mads+xml mads
application/marc mrc
application/marcxml+xml mrcx
application/mathematica ma nb mb
application/mathml+xml mathml
application/mathml-content+xml
application/mathml-presentation+xml
application/mbms-associated-procedure-description+xml
application/mbms-deregister+xml
application/mbms-envelope+xml
application/mbms-msk+xml
application/mbms-msk-response+xml
application/mbms-protection-description+xml
application/mbms-reception-report+xml
application/mbms-register+xml
application/mbms-register-response+xml
application/mbms-schedule+xml
application/mbms-user-service-description+xml
application/mbox mbox
application/media-policy-dataset+xml
application/media_control+xml
application/mediaservercontrol+xml mscml
application/merge-patch+json
application/metalink+xml metalink

application/metalink4+xml meta4
application/mets+xml mets

application/mf4
application/mikey
application/mods+xml mods
application/moss-keys
application/moss-signature
application/mosskey-data
application/mosskey-request
application/mp21 m21 mp21
application/mp4 mp4s
application/mpeg4-generic
application/mpeg4-iod
application/mpeg4-iod-xmt
application/mrb-consumer+xml
application/mrb-publish+xml
application/msc-ivr+xml
application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
application/nasdata
application/news-checkgroups
application/news-groupinfo
application/news-transmission
application/nlsml+xml
application/nss
application/ocsp-request
application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
application/odx
application/oebps-package+xml opf
application/ogg ogx
application/omdoc+xml omdoc
application/onenote onetoc
onetoc2 onetmp onepkg
application/oxps oxps
application/p2p-overlay+xml
application/parityfec
application/patch-ops-error+xml xer
application/pdf pdf
application/pdx
application/pgp-encrypted pgp
application/pgp-keys
application/pgp-signature asc sig
application/pics-rules prf
application/pidf+xml

```
# application/pidf-diff+xml
application/pkcs10 p10
# application/pkcs12
application/pkcs7-mime p7m p7c
application/pkcs7-signature p7s
application/pkcs8 p8
application/pkix-attr-cert ac
application/pkix-cert cer
application/pkix-crl crl
application/pkix-pkipath pkipath
application/pkixcmp pki
application/pls+xml pls
# application/poc-settings+xml
application/postscript ai eps ps
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cww cww
# application/prs.hpub+zip
# application/prs.nprend
# application/prs.plucker
#
application/prs.rdf+xml-crypt
# application/prs.xsf+xml
application/pskc+xml pskcxml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xml rdf
application/reginfo+xml rif
application/relax-ng-compact-syntax rnc
# application/remote-printing
# application/reputon+json
application/resource-lists+xml rl
application/resource-lists-diff+xml rld
# application/rfc+xml
# application/riscos
# application/rlmi+xml
application/rls-services+xml rs
application/rpki-ghostbusters gbr
application/rpki-manifest mft
application/rpki-roa roa
# application/rpki-updown
application/rsd+xml rsd
application/rss+xml rss
application/rtf rtf
```

application/rtploopback
application/rtx
application/samlassertion+xml
application/samlmetadata+xml
application/sbml+xml sbml
application/scaip+xml
application/scim+json
application/scvp-cv-request scq
application/scvp-cv-response scs
application/scvp-vp-request spq
application/scvp-vp-response spp
application/sdp sdp

application/sep+xml
application/sep-exi
application/session-info
application/set-payment
application/set-payment-initiation setpay
application/set-registration
application/set-registration-initiation setreg
application/sgml
application/sgml-open-catalog
application/shf+xml shf
application/sieve
application/simple-filter+xml
application/simple-message-summary
application/simplesymbolcontainer
application/slate
application/smil
application/smil+xml smi smil
application/smpite336m
application/soap+fastinfoset
application/soap+xml
application/sparql-query rq
application/sparql-results+xml srx
application/spirits-event+xml
application/sql
application/srgs gram
application/srgs+xml grxml
application/sru+xml sru
application/ssdl+xml ssdl
application/ssml+xml ssml
application/tamp-apex-update
application/tamp-apex-update-confirm
application/tamp-community-update
application/tamp-community-update-confirm
#

application/tamp-error
application/tamp-sequence-adjust
application/tamp-sequence-adjust-confirm
application/tamp-status-query
application/tamp-status-response
application/tamp-update
application/tamp-update-confirm
application/tei+xml tei teicorpus
application/thraud+xml tfi
application/timestamp-query
application/timestamp-reply
application/timestamped-data tsd
application/ttml+xml
application/tve-trigger
application/ulpfec
application/urc-grpsheet+xml
application/urc-ressheet+xml
application/urc-targetdesc+xml
application/urc-uisocketdesc+xml
application/vcard+json
application/vcard+xml
application/vemmi
application/vividence.scriptfile
application/vnd.3gpp-prose+xml
application/vnd.3gpp-prose-pc3ch+xml
application/vnd.3gpp.access-transfer-events+xml
application/vnd.3gpp.bsf+xml
application/vnd.3gpp.mid-call+xml
application/vnd.3gpp.pic-bw-large plb
application/vnd.3gpp.pic-bw-small psb
application/vnd.3gpp.pic-bw-var pvb

application/vnd.3gpp.sms
application/vnd.3gpp.sms+xml
application/vnd.3gpp.srvcc-ext+xml
application/vnd.3gpp.srvcc-info+xml
application/vnd.3gpp.state-and-event-info+xml
application/vnd.3gpp.ussd+xml
application/vnd.3gpp2.bcmcsinfo+xml
application/vnd.3gpp2.sms
application/vnd.3gpp2.tcap tcap
application/vnd.3lightssoftware.imagescal
application/vnd.3m.post-it-notes pwn
application/vnd.accpac.simply.aso aso
application/vnd.accpac.simply.imp imp
application/vnd.acucobol acu
application/vnd.acucorp atc acutc
application/vnd.adobe.air-application-installer-package+zip air

```
# application/vnd.adobe.flash.movie
application/vnd.adobe.formscentral.fcdf fcdf
application/vnd.adobe.fxp fxp fxpl
# application/vnd.adobe.partial-upload
application/vnd.adobe.xdp+xml xdp
application/vnd.adobe.xfdf xfdf
# application/vnd.aether.imp
# application/vnd.ah-barcode
application/vnd.ahead.space ahead
application/vnd.airzip.filesecure.azf azf
application/vnd.airzip.filesecure.azs azs
application/vnd.amazon.ebook azw
#
application/vnd.amazon.mobi8-ebook
application/vnd.americandynamics.acc acc
application/vnd.amiga.ami ami
# application/vnd.amundsen.maze+xml
application/vnd.android.package-archive apk
# application/vnd.anki
application/vnd.anser-web-certificate-issue-initiation cii
application/vnd.anser-web-funds-transfer-initiation fti
application/vnd.antix.game-component atx
# application/vnd.apache.thrift.binary
# application/vnd.apache.thrift.compact
# application/vnd.apache.thrift.json
# application/vnd.api+json
application/vnd.apple.installer+xml mpkg
application/vnd.apple.mpegurl m3u8
# application/vnd.arastra.swi
application/vnd.aristanetworks.swi swi
# application/vnd.artsquare
application/vnd.astraea-software.iota iota
application/vnd.audiograph aep
# application/vnd.autopackage
# application/vnd.avistar+xml
# application/vnd.balsamiq.bmml+xml
# application/vnd.balsamiq.bmpr
# application/vnd.bekitzur-stech+json
# application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm
#
application/vnd.bluetooth.ep.oob
# application/vnd.bluetooth.le.oob
application/vnd.bmi bmi
application/vnd.businessobjects rep
# application/vnd.cab-jscript
# application/vnd.canon-cpdl
# application/vnd.canon-lips
```



```
# application/vnd.cendio.thinlinc.clientconf
# application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml cdxml
# application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd mmd
application/vnd.cinderella cdy
# application/vnd.cirpack.isdn-ext
# application/vnd.citationstyles.style+xml
application/vnd.claymore cla
application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
# application/vnd.coffeescript
# application/vnd.collection+json
# application/vnd.collection.doc+json
# application/vnd.collection.next+json
# application/vnd.comicbook+zip
#
application/vnd.commerce-battelle
application/vnd.commonspace csp
application/vnd.contact.cmsg cdbcmg
# application/vnd.coreos.ignition+json
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
# application/vnd.ctct.ws+xml
# application/vnd.cups-pdf
# application/vnd.cups-postscript
application/vnd.cups-ppd ppd
# application/vnd.cups-raster
# application/vnd.cups-raw
# application/vnd.curl
application/vnd.curl.car car
application/vnd.curl.pcurl pcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dart dart
application/vnd.data-vision.rdz rdz
# application/vnd.debian.binary-package
application/vnd.dece.data uvf uvvf uvd uvvd
application/vnd.dece.ttml+xml uvt uvvt
application/vnd.dece.unspecified uvx
```

uvvx
application/vnd.dece.zip uvz uvvz
application/vnd.denovo.fcselayout-link fe_launch
application/vnd.desmume.movie
application/vnd.dir-bi.plate-dl-nosuffix
application/vnd.dm.delegation+xml
application/vnd.dna dna
application/vnd.document+json
application/vnd.dolby.mlp mlp
application/vnd.dolby.mobile.1
application/vnd.dolby.mobile.2
application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
application/vnd.drive+json
application/vnd.ds-keypoint kpxx
application/vnd.dtg.local
application/vnd.dtg.local.flash
application/vnd.dtg.local.html
application/vnd.dvb.ait ait
application/vnd.dvb.dvbj
application/vnd.dvb.esgcontainer
application/vnd.dvb.ipdcdfnotifaccess
application/vnd.dvb.ipdcesgaccess
application/vnd.dvb.ipdcesgaccess2
application/vnd.dvb.ipdcesgpdd
application/vnd.dvb.ipdcroaming
application/vnd.dvb.iptv.alfec-base
application/vnd.dvb.iptv.alfec-enhancement

application/vnd.dvb.notif-aggregate-root+xml
application/vnd.dvb.notif-container+xml
application/vnd.dvb.notif-generic+xml
application/vnd.dvb.notif-ia-msglist+xml
application/vnd.dvb.notif-ia-registration-request+xml
application/vnd.dvb.notif-ia-registration-response+xml
application/vnd.dvb.notif-init+xml
application/vnd.dvb.pfr
application/vnd.dvb.service svc
application/vnd.dxr
application/vnd.dynageo geo
application/vnd.dzr
application/vnd.easykaraoke.cdgdownload
application/vnd.ecdis-update
application/vnd.ecowin.chart mag
application/vnd.ecowin.filerequest
application/vnd.ecowin.fileupdate
application/vnd.ecowin.series

```
# application/vnd.ecowin.seriesrequest
# application/vnd.ecowin.seriesupdate
# application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
# application/vnd.enphase.envoy
# application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf
#
application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml es3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.iptvueprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.etsi.pstn+xml
# application/vnd.etsi.sci+xml
# application/vnd.etsi.simservs+xml
# application/vnd.etsi.timestamp-token
# application/vnd.etsi.tsl+xml
# application/vnd.etsi.tsl.der
# application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
#
application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
# application/vnd.ffmpeg
# application/vnd.filmit.zfc
# application/vnd.fints
```

```
# application/vnd.firemonkeys.cloudcell
application/vnd.flographit gph
application/vnd.fluxtime.clip ftc
# application/vnd.font-fontforge-sfd
application/vnd.framemaker fm frame maker book
application/vnd.frogans.fnc fnc
application/vnd.frogans.ltf ltf
application/vnd.fsc.weblaunch fsc
application/vnd.fujitsu.oasys oas
application/vnd.fujitsu.oasys2 oa2
application/vnd.fujitsu.oasys3 oa3
application/vnd.fujitsu.oasysgp fg5
application/vnd.fujitsu.oasysprs bh2
# application/vnd.fujixerox.art-ex
# application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd ddd
application/vnd.fujixerox.docuworks xdw
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  application/vnd.fujixerox.hbpl
# application/vnd.fut-misnet
application/vnd.fuzzysheet fzs
application/vnd.genomatix.tuxedo txd
# application/vnd.geo+json
# application/vnd.geocube+xml
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application/vnd.geogebra.tool ggt
application/vnd.geometry-explorer gex gre
application/vnd.geonext gxt
application/vnd.geoplan g2w
application/vnd.geospace g3w
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# application/vnd.globalplatform.card-content-mgt-response
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application/vnd.google-earth.kmz kmz
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# application/vnd.gov.sk.e-form+zip
# application/vnd.gov.sk.xmldatacontainer+xml
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# application/vnd.gridmp
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application/vnd.groove-help ghf
application/vnd.groove-identity-message gim
application/vnd.groove-injector grv
application/vnd.groove-tool-message gtm
```

application/vnd.groove-tool-template tpl
application/vnd.groove-vcard vcg

application/vnd.hal+json
application/vnd.hal+xml hal
application/vnd.handheld-entertainment+xml zmm
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application/vnd.hcl-bireports
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application/vnd.insors.igm igm

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kpt
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application/vnd.lotus-freelance pre
application/vnd.lotus-notes nsf
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```
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application/vnd.mozilla.xul+xml xul
# application/vnd.ms-3mfdocument
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# application/vnd.ms-asf
application/vnd.ms-cab-compressed cab
# application/vnd.ms-color.iccprofile
application/vnd.ms-excel xls xlm xla xlc xlt xlw
application/vnd.ms-excel.addin.macroenabled.12 xlam
application/vnd.ms-excel.sheet.binary.macroenabled.12 xlsb
application/vnd.ms-excel.sheet.macroenabled.12 xlsx
application/vnd.ms-excel.template.macroenabled.12 xltn
application/vnd.ms-fontobject eot
application/vnd.ms-htmlhelp chm
application/vnd.ms-ims ims
application/vnd.ms-lrm lrm
# application/vnd.ms-office.activex+xml
application/vnd.ms-officetheme thmx
# application/vnd.ms-opentype
#
application/vnd.ms-package.obfuscated-opentype
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application/vnd.ms-pki.stl stl
# application/vnd.ms-playready.initiator+xml
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# application/vnd.ms-printschematicket+xml
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# application/vnd.ms-windows.nwprinting.oob
# application/vnd.ms-windows.printerpairing
# application/vnd.ms-windows.wsd.oob
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# application/vnd.ms-wmdrm.lic-resp
# application/vnd.ms-wmdrm.meter-chlg-req
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application/vnd.ms-word.template.macroenabled.12 dotm
application/vnd.ms-works wps wks wcm wdb
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application/vnd.ms-wpl wpl
application/vnd.ms-xpsdocument xps
application/vnd.msa-disk-image
application/vnd.mseq mseq
application/vnd.msign
application/vnd.multiad.creator
application/vnd.multiad.creator.cif
application/vnd.music-niff
application/vnd.musician mus
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application/vnd.oma.bcast.drm-trigger+xml
application/vnd.oma.bcast.imd+xml
application/vnd.oma.bcast.ltkm
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application/vnd.oma.bcast.sgboot
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# application/vnd.oma.drm.risd+xml
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# application/vnd.oma.lwm2m+tlv
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#
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# application/vnd.openxmlformats-officedocument.presentationml.noteslide+xml

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application/vnd.osgi.dp dp
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application/vnd.rim.cod cod
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application/vnd.rn-realmedia-vbr rmvb
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application/vnd.sailingtracker.track st
application/vnd.sbm.cid
application/vnd.sbm.mid2
application/vnd.scribus
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twds
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application/vnd.svd svd
application/vnd.swiftview-ics
application/vnd.symbian.install sis sixs
application/vnd.syncml+xml xsm
application/vnd.syncml.dm+wbxml bdm
application/vnd.syncml.dm+xml xdm
application/vnd.syncml.dm.notification
application/vnd.syncml.dmddf+wbxml
application/vnd.syncml.dmddf+xml
application/vnd.syncml.dmtnds+wbxml
application/vnd.syncml.dmtnds+xml
application/vnd.syncml.ds.notification
application/vnd.tao.intent-module-archive tao
application/vnd.tcpdump.pcap pcap cap dmp
application/vnd.tmd.mediaflex.api+xml
application/vnd.tml
application/vnd.tmobile-livetv tmo
application/vnd.trid.tpt tpt
application/vnd.triscape.mxs mxs
application/vnd.trueapp tra

application/vnd.truedoc
application/vnd.ubisoft.webplayer
application/vnd.ufdl ufd ufdl
application/vnd.uiq.theme utz
application/vnd.umajin umj
application/vnd.unity unityweb
application/vnd.uoml+xml uoml
application/vnd.uplanet.alert
application/vnd.uplanet.alert-wbxml
application/vnd.uplanet.bearer-choice
application/vnd.uplanet.bearer-choice-wbxml
application/vnd.uplanet.cacheop
application/vnd.uplanet.cacheop-wbxml
application/vnd.uplanet.channel
application/vnd.uplanet.channel-wbxml
application/vnd.uplanet.list
application/vnd.uplanet.list-wbxml
application/vnd.uplanet.listcmd
application/vnd.uplanet.listcmd-wbxml
application/vnd.uplanet.signal
application/vnd.uri-map
application/vnd.valve.source.material
application/vnd.vex vcx
application/vnd.vd-study
application/vnd.vectorworks

application/vnd.vel+json
application/vnd.verimatrix.vcas
application/vnd.vidsoft.vidconference
application/vnd.visio vsd
vst vss vsw
application/vnd.visionary vis
application/vnd.vividence.scriptfile
application/vnd.vsf vsf
application/vnd.wap.sic
application/vnd.wap.slc
application/vnd.wap.wbxml wbxml
application/vnd.wap.wmlc wmlc
application/vnd.wap.wmlscriptc wmlsc
application/vnd.webturbo wtb
application/vnd.wfa.p2p
application/vnd.wfa.wsc
application/vnd.windows.devicepairing
application/vnd.wmc
application/vnd.wmf.bootstrap
application/vnd.wolfram.mathematica
application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player nbp
application/vnd.wordperfect wpd
application/vnd.wqd wqd
application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf stf
application/vnd.wv.csp+wbxml
application/vnd.wv.csp+xml
application/vnd.wv.ssp+xml
application/vnd.xacml+json
application/vnd.xara xar
application/vnd.xfdl xfdl
application/vnd.xfdl.webform
application/vnd.xmi+xml
application/vnd.xmpie.cpkg

application/vnd.xmpie.dpkg
application/vnd.xmpie.plan
application/vnd.xmpie.ppkg
application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dic hvd
application/vnd.yamaha.hv-script hvs
application/vnd.yamaha.hv-voice hvp
application/vnd.yamaha.openscoreformat osf
application/vnd.yamaha.openscoreformat.osfpvg+xml osfpvg
application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audio saf
application/vnd.yamaha.smaf-phrase spf

```
# application/vnd.yamaha.through-ngn
# application/vnd.yamaha.tunnel-udpencap
# application/vnd.yaoweme
application/vnd.yellowriver-custom-menu cmp
application/vnd.zul zir zirz
application/vnd.zzazz.deck+xml zaz
application/voicexml+xml vxml
# application/vq-rtcpvr
# application/watcherinfo+xml
# application/whoispp-query
# application/whoispp-response
application/widget wgt
application/winhelp hlp
# application/wita
# application/wordperfect5.1
application/wsdl+xml wsdl
application/wspolicy+xml wspolicy
application/x-7z-compressed 7z
application/x-abiword abw
application/x-ace-compressed ace
#
application/x-amf
application/x-apple-diskimage dmg
application/x-authorware-bin aab x32 u32 vox
application/x-authorware-map aam
application/x-authorware-seg aas
application/x-bcpio bcpio
application/x-bittorrent torrent
application/x-blorb blb blorb
application/x-bzip bz
application/x-bzip2 bz2 boz
application/x-cbr cbr cba cbt cbz cb7
application/x-cdlink vcd
application/x-cfs-compressed cfs
application/x-chat chat
application/x-chess-pgn pgn
# application/x-compress
application/x-conference nsc
application/x-cpio cpio
application/x-csh csh
application/x-debian-package deb udeb
application/x-dgc-compressed dgc
application/x-director dir dcr dxr cst cct ext w3d fgd swa
application/x-doom wad
application/x-dtbncx+xml ncx
application/x-dtbook+xml dtb
application/x-dtbresource+xml res
application/x-dvi dvi
```

application/x-envoy evy
application/x-eva eva
application/x-font-bdf bdf

application/x-font-dos
application/x-font-framemaker
application/x-font-ghostscript gsf
application/x-font-libgrx
application/x-font-linux-psf psf
application/x-font-pcf pcf
application/x-font-snf snf
application/x-font-speedo
application/x-font-sunos-news
application/x-font-type1 pfa pfb pfm afm
application/x-font-vfont
application/x-freearc arc
application/x-futuresplash spl
application/x-gca-compressed gca
application/x-glulx ulx
application/x-gnumeric gnumeric
application/x-gramps-xml gramps
application/x-gtar gtar
application/x-gzip
application/x-hdf hdf
application/x-install-instructions install
application/x-iso9660-image iso
application/x-java-jnlp-file jnlp
application/x-latex latex
application/x-lzh-compressed lzh lha
application/x-mie mie
application/x-mobipocket-ebook prc mobi
application/x-ms-application application
application/x-ms-shortcut lnk
application/x-ms-wmd wmd
application/x-ms-wmz wmz
application/x-ms-xbap xbap
application/x-msaccess mdb
application/x-msbinder obd
application/x-mscardfile crd
application/x-msclip clp
application/x-msdownload exe
dll com bat msi
application/x-msmediaview mvb m13 m14
application/x-msmetafile wmf wmz emf emz
application/x-msmoney mny
application/x-mspublisher pub
application/x-msschedule scd
application/x-msterminal trm

application/x-mswrite wri
application/x-netcdf nc cdf
application/x-nzb nzb
application/x-pkcs12 p12 pfx
application/x-pkcs7-certificates p7b spc
application/x-pkcs7-certreqresp p7r
application/x-rar-compressed rar
application/x-research-info-systems ris
application/x-sh sh
application/x-shar shar
application/x-shockwave-flash swf
application/x-silverlight-app xap
application/x-sql sql
application/x-stuffit sit
application/x-stuffitx sitx
application/x-subrip srt
application/x-sv4cpio sv4cpio
application/x-sv4crc sv4crc
application/x-t3vm-image t3
application/x-tads gam
application/x-tar tar
application/x-tcl tcl
application/x-tex tex
application/x-tex-tfm tfm
application/x-texinfo texinfo
texi
application/x-tgif obj
application/x-ustar ustar
application/x-wais-source src
application/x-www-form-urlencoded
application/x-x509-ca-cert der crt
application/x-xfig fig
application/x-xliff+xml xlf
application/x-xpinstall xpi
application/x-xz xz
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8
application/x400-bp
application/xacml+xml
application/xaml+xml xaml
application/xcap-att+xml
application/xcap-caps+xml
application/xcap-diff+xml xdf
application/xcap-el+xml
application/xcap-error+xml
application/xcap-ns+xml
application/xcon-conference-info+xml
application/xcon-conference-info-diff+xml
application/xenc+xml xenc

application/xhtml+xml xhtml xht
application/xhtml-voice+xml
application/xml xml xsl
application/xml-dtd dtd

application/xml-external-parsed-entity
application/xml-patch+xml
application/xmpp+xml
application/xop+xml xop
application/xproc+xml xpl
application/xslt+xml xslt
application/xspf+xml xspf
application/xv+xml mxml xhvm xvm xvm
application/yang yang
application/yin+xml yin
application/zip zip
application/zlib
audio/1d-interleaved-parityfec
audio/32kadpcm
audio/3gpp
audio/3gpp2
audio/ac3
audio/adpcm adp
audio/amr
audio/amr-wb
audio/amr-wb+
audio/aptx
audio/asc
audio/atrac-advanced-lossless
audio/atrac-x
audio/atrac3
audio/basic au snd
audio/bv16
audio/bv32
audio/clearmode
audio/cn
audio/dat12
audio/dls
audio/dsr-es201108
audio/dsr-es202050
audio/dsr-es202211
audio/dsr-es202212
audio/dv
audio/dvi4
audio/eac3
audio/encaprtmp
audio/evrc
audio/evrc-qcp

audio/evrc0
audio/evrc1
audio/evrcb
audio/evrcb0
audio/evrcb1
audio/evrcnw
audio/evrcnw0
audio/evrcnw1
audio/evrcwb
audio/evrcwb0

 audio/evrcwb1
audio/evs
audio/example
audio/fwdred
audio/g711-0
audio/g719
audio/g722
audio/g7221
audio/g723
audio/g726-16
audio/g726-24
audio/g726-32
audio/g726-40
audio/g728
audio/g729
audio/g7291
audio/g729d
audio/g729e
audio/gsm
audio/gsm-efr
audio/gsm-hr-08
audio/ilbc
audio/ip-mr_v2.5
audio/isac
audio/l16
audio/l20
audio/l24
audio/l8
audio/lpc
audio/midi mid midi kar rmi
audio/mobile-xmf
audio/mp4 m4a mp4a
audio/mp4a-latm
audio/mpa
audio/mpa-robust
audio/mpeg mpga mp2 mp2a mp3 m2a m3a
audio/mpeg4-generic

audio/musepack
audio/ogg oga ogg spx
audio/opus
audio/parityfec
audio/pcma
audio/pcma-wb
audio/pcmu
audio/pcmu-wb
audio/prs.sid
audio/qcelp
audio/raptorfec
audio/red
audio/rtp-enc-aescm128
audio/rtp-midi
audio/rtploopback
audio/rtx
audio/s3m s3m
audio/silk sil
audio/smv
audio/smv-qcp
audio/smv0
audio/sp-midi
audio/speex
audio/t140c
audio/t38

audio/telephone-event
audio/tone
audio/uemclip
audio/ulpfec
audio/vdvi
audio/vmr-wb
audio/vnd.3gpp.iufp
audio/vnd.4sb
audio/vnd.audiokoz
audio/vnd.celp
audio/vnd.cisco.nse
audio/vnd.cmles.radio-events
audio/vnd.cns.anp1
audio/vnd.cns.inf1
audio/vnd.dece.audio uva uvva
audio/vnd.digital-winds eol
audio/vnd.dlna.adts
audio/vnd.dolby.heaac.1
audio/vnd.dolby.heaac.2
audio/vnd.dolby.mlp
audio/vnd.dolby.mps
audio/vnd.dolby.pl2

```
# audio/vnd.dolby.pl2x
# audio/vnd.dolby.pl2z
# audio/vnd.dolby.pulse.1
audio/vnd.dra dra
audio/vnd.dts dts
audio/vnd.dts.hd dtshd
# audio/vnd.dvb.file
# audio/vnd.everad.plj
# audio/vnd.hns.audio
audio/vnd.lucent.voice lvp
audio/vnd.ms-playready.media.pya pya
# audio/vnd.nokia.mobile-xmf
# audio/vnd.nortel.vbk
audio/vnd.nuera.ecelp4800 ecelp4800
audio/vnd.nuera.ecelp7470 ecelp7470
audio/vnd.nuera.ecelp9600 ecelp9600
# audio/vnd.octel.sbc
# audio/vnd.qcelp
# audio/vnd.rhetorex.32kadpcm
audio/vnd.rip rip
#
  audio/vnd.sealedmedia.softseal.mpeg
# audio/vnd.vmx.cvsd
# audio/vorbis
# audio/vorbis-config
audio/webm weba
audio/x-aac aac
audio/x-aiff aif aiff aifc
audio/x-caf caf
audio/x-flac flac
audio/x-matroska mka
audio/x-mpegurl m3u
audio/x-ms-wax wax
audio/x-ms-wma wma
audio/x-pn-realaudio ram ra
audio/x-pn-realaudio-plugin rmp
# audio/x-tta
audio/x-wav wav
audio/xm xm
chemical/x-cdx cdx
chemical/x-cif cif
chemical/x-cmdf cmdf
chemical/x-cml cml
chemical/x-csml csml
# chemical/x-pdb
chemical/x-xyz xyz
font/collection ttc
font/otf otf
```



```
# font/sfnt
font/ttf ttf
font/woff woff
font/woff2 woff2
image/bmp bmp
image/cgm cgm
# image/dicom-rlc
# image/emf
# image/example
# image/fits
image/g3fax g3
image/gif gif
image/ief ief
# image/jls
# image/jp2
image/jpeg jpeg jpg jpe
# image/jpm
# image/jpx
image/ktx ktx
# image/naplps
image/png png
image/prs.btif btif
# image/prs.pti
#
image/pwg-raster
image/sgi sgi
image/svg+xml svg svgz
# image/t38
image/tiff tiff tif
# image/tiff-fx
image/vnd.adobe.photoshop psd
# image/vnd.airzip.accelerator.azv
# image/vnd.cns.inf2
image/vnd.dece.graphic uvi uvvi uvg uvvg
image/vnd.djvu djvu djv
image/vnd.dvb.subtitle sub
image/vnd.dwg dwg
image/vnd.dxf dxf
image/vnd.fastbidsheet fbs
image/vnd.fpx fpx
image/vnd.fst fst
image/vnd.fujixerox.edmics-mmr mmr
image/vnd.fujixerox.edmics-rlc rlc
# image/vnd.globalgraphics.pgb
# image/vnd.microsoft.icon
# image/vnd.mix
# image/vnd.mozilla.apng
image/vnd.ms-modi mdi
```

image/vnd.ms-photo wdp
image/vnd.net-fpx npx
image/vnd.radiance
image/vnd.sealed.png
image/vnd.sealedmedia.softseal.gif
image/vnd.sealedmedia.softseal.jpg
image/vnd.svf
image/vnd.tencent.tap
image/vnd.valve.source.texture
image/vnd.wap.wbmp wbmp
image/vnd.xiff xif
image/vnd.zbrush.pcx
image/webp webp
image/wmf
image/x-3ds 3ds
image/x-cmu-raster ras
image/x-cmx cmx
image/x-freehand fh
fhc fh4 fh5 fh7
image/x-icon ico
image/x-mrsid-image sid
image/x-pcx pcx
image/x-pict pic pct
image/x-portable-anymap pnm
image/x-portable-bitmap pbm
image/x-portable-graymap pgm
image/x-portable-pixmap ppm
image/x-rgb rgb
image/x-tga tga
image/x-xbitmap xbm
image/x-xpixmap xpm
image/x-xwindowdump xwd
message/cpim
message/delivery-status
message/disposition-notification
message/example
message/external-body
message/feedback-report
message/global
message/global-delivery-status
message/global-disposition-notification
message/global-headers
message/http
message/imdn+xml
message/news
message/partial
message/rfc822 eml mime
message/s-http

```
# message/sip
# message/sipfrag
# message/tracking-status
# message/vnd.si.simp
# message/vnd.wfa.wsc
# model/example
# model/gltf+json
model/iges igs iges
model/mesh msh mesh silo
model/vnd.collada+xml dae
model/vnd.dwf dwf
#
  model/vnd.flatland.3dml
model/vnd.gdl gdl
# model/vnd.gs-gdl
# model/vnd.gs.gdl
model/vnd.gtw gtw
# model/vnd.moml+xml
model/vnd.mts mts
# model/vnd.opengex
# model/vnd.parasolid.transmit.binary
# model/vnd.parasolid.transmit.text
# model/vnd.rosette.annotated-data-model
# model/vnd.valve.source.compiled-map
model/vnd.vtu vtu
model/vrml wrl vrml
model/x3d+binary x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml x3dv x3dvz
model/x3d+xml x3d x3dz
# model/x3d-vrml
# multipart/alternative
# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
text/cache-manifest appcache
```

text/calendar ics ifb
text/css css
text/csv csv
text/csv-schema

text/directory
text/dns
text/ecmascript
text/encaprtpt
text/enriched
text/example
text/fwdred
text/grammar-ref-list
text/html html htm
text/javascript
text/jcr-cnd
text/markdown
text/mizar
text/n3 n3
text/parameters
text/parityfec
text/plain txt text conf def list log in
text/provenance-notation
text/prs.fallenstein.rst
text/prs.lines.tag dsc
text/prs.prop.logic
text/raptorfec
text/red
text/rfc822-headers
text/richtext rtx
text/rtf
text/rtp-enc-aescm128
text/rtploopback
text/rtx
text/sgml sgml sgm
text/t140
text/tab-separated-values tsv
text/troff t tr roff man me ms
text/turtle ttl
text/ulpfec
text/uri-list uri uris urls
text/vcard vcard
text/vnd.a
text/vnd.abc
text/vnd.curl curl
text/vnd.curl.dcurl dcurl
text/vnd.curl.mcurl mcurl
text/vnd.curl.scurl scurl

```
# text/vnd.debian.copyright
# text/vnd.dmclientscript
text/vnd.dvb.subtitle sub
# text/vnd.esmertec.theme-descriptor
text/vnd.fly fly
text/vnd.fmi.flexstor flx
text/vnd.graphviz gv
text/vnd.in3d.3dml 3dml
text/vnd.in3d.spot spot
#
text/vnd.iptc.newsml
# text/vnd.iptc.nitf
# text/vnd.latex-z
# text/vnd.motorola.reflex
# text/vnd.ms-mediapackage
# text/vnd.net2phone.commcenter.command
# text/vnd.radisys.msml-basic-layout
# text/vnd.si.uricatalogue
text/vnd.sun.j2me.app-descriptor jad
# text/vnd.trolltech.linguist
# text/vnd.wap.si
# text/vnd.wap.sl
text/vnd.wap.wml wml
text/vnd.wap.wmlscript wmls
text/x-asm s asm
text/x-c c cc cxx cpp h hh dic
text/x-fortran f for f77 f90
text/x-java-source java
text/x-nfo nfo
text/x-opml opml
text/x-pascal p pas
text/x-setext etx
text/x-sfv sfv
text/x-uencode uu
text/x-vcalendar vcs
text/x-vcard vcf
# text/xml
# text/xml-external-parsed-entity
# video/1d-interleaved-parityfec
video/3gpp 3gp
# video/3gpp-tt
video/3gpp2 3g2
# video/bmpeg
# video/bt656
# video/celb
# video/dv
# video/encaprtsp
# video/example
```

video/h261 h261
video/h263 h263

video/h263-1998
video/h263-2000
video/h264 h264
video/h264-rcdo
video/h264-svc
video/h265
video/iso.segment
video/jpeg jpgv
video/jpeg2000
video/jpm jpm jpgm
video/mj2 mj2 mjp2
video/mp1s
video/mp2p
video/mp2t
video/mp4 mp4 mp4v mpg4
video/mp4v-es
video/mpeg mpeg mpg mpe m1v m2v
video/mpeg4-generic
video/mpv
video/nv
video/ogg ogv
video/parityfec
video/pointer
video/quicktime qt mov
video/raptorfec
video/raw
video/rtp-enc-aescm128
video/rtploopback
video/rtx
video/smpte292m
video/ulpfec
video/vc1
video/vnd.cctv
video/vnd.dece.hd uvh uvvh
video/vnd.dece.mobile uvm uvvm
video/vnd.dece.mp4
video/vnd.dece.pd uvp uvvp
video/vnd.dece.sd uvs uvvs
video/vnd.dece.video uvv uvvv
video/vnd.directv.mpeg
video/vnd.directv.mpeg-tts
video/vnd.dlna.mpeg-tts
video/vnd.dvb.file dvb
video/vnd.fvt fvt
video/vnd.hns.video

video/vnd.iptvforum.1dparityfec-1010

video/vnd.iptvforum.1dparityfec-2005
video/vnd.iptvforum.2dparityfec-1010
video/vnd.iptvforum.2dparityfec-2005
video/vnd.iptvforum.ttsavc
video/vnd.iptvforum.ttsmpeg2
video/vnd.motorola.video
video/vnd.motorola.videop
video/vnd.mpegurl mxu m4u
video/vnd.ms-playready.media.pyv pyv
video/vnd.nokia.interleaved-multimedia
video/vnd.nokia.videovoip
video/vnd.objectvideo
video/vnd.radgamettools.bink
video/vnd.radgamettools.smacker
video/vnd.sealed.mpeg1
video/vnd.sealed.mpeg4
video/vnd.sealed.swf
video/vnd.sealedmedia.softseal.mov
video/vnd.uvu.mp4 uvu uvvu
video/vnd.vivo viv
video/vp8
video/webm webm
video/x-f4v f4v
video/x-fli fli
video/x-flv flv
video/x-m4v m4v
video/x-matroska mkv mk3d mks
video/x-mng mng
video/x-ms-asf asf asx
video/x-ms-vob vob
video/x-ms-wm wm
video/x-ms-wmv wmv
video/x-ms-wmx wmx
video/x-ms-wvx wvx
video/x-msvideo avi
video/x-sgi-movie movie
video/x-smv smv
x-conference/x-cooltalk ice

Found

in path(s):

* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/META-INF/http/mime.types

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* under the License.
*/

Found in path(s):

* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/uri/QueryStringDecoder.java

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jar/io/micronaut/http/hateoas/GenericResource.java

* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/bind/binders/PartAnnotationBinder.java

* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/ssl/ServerSslConfiguration.java

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/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/ssl/ClientSslConfiguration.java

* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/ssl/SslConfiguration.java

* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/MediaTypeConvertersRegistrar.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/util/HttpHeadersUtil.java
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/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/filter/HttpServerFilterResolver.java
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/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/cookie/SameSite.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/resource/package-info.java
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*
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* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/bind/binders/BodyArgumentBinder.java
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* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-

jar/io/micronaut/http/HttpRequestFactory.java
*
/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/HttpResponseWrapper.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/HttpStatus.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/sse/DefaultEvent.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/annotation/UriMapping.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/util/HttpUtil.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/codec/MediaTypeCodecRegistry.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/util/package-info.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/annotation/CustomHttpMethod.java
*
/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/context/ServerRequestTracingPublisher.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/MutableHttpResponse.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/HttpRequestWrapper.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/annotation/Error.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/context/ClientContextPathProvider.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/cookie/CookieConfiguration.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/MutableHttpMessage.java
*
/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/simple/SimpleHttpRequest.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/codec/CodecException.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/uri/UriMatchTemplate.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/hateoas/VndError.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/exceptions/ContentLengthExceededException.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/filter/ServerFilterChain.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/uri/UriMatchInfo.java

* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/filter/DefaultFilterEntry.java
*
/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/bind/binders/ParameterAnnotationBinder.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/HttpVersion.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/annotation/Head.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/annotation/Headers.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/bind/binders/NonBlockingBodyArgumentBinder.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/filter/ClientFilterChain.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/multipart/package-info.java
*
/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/annotation/RequestBean.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/bind/DefaultRequestBinderRegistry.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/annotation/Post.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/filter/HttpClientFilterResolver.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/bind/binders/RequestArgumentBinder.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/annotation/Get.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/annotation/CookieValue.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/annotation/Header.java
*
/opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/hateoas/Link.java
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/io/micronaut/http/annotation/Produces.java
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Found in path(s):

```
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-
jar/io/micronaut/http/CaseInsensitiveMutableHttpHeaders.java
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```
* /opt/cola/permits/1668044477_1683573427.5051796/0/micronaut-http-3-9-0-sources-jar/META-INF/native-
image/io.micronaut.http/micronaut-http/native-image.properties
```

1.167 micronaut-validation 3.9.0

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* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/EmailValidator.java

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* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/META-INF/native-image/io.micronaut.validation/micronaut-validation/native-image.properties

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* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/internal/package-info.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/DefaultConstraintDescriptor.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/ConstraintValidatorRegistry.java

*

/opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/DigitsValidator.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/ConstraintValidatorContext.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/DecimalMaxValidator.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/ValidatorConfiguration.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/package-info.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/async/AsyncTypeElementVisitor.java

*

/opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/extractors/DefaultValueExtractors.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/extractors/UnwrapByDefaultValueExtractor.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/DefaultValidatorConfiguration.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/resolver/CompositeTraversableResolver.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/executable/ExecutableVisitor.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/InspectedBeanDescriptor.java

*

/opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/Validator.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/DefaultConstraintValidators.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/messages/DefaultValidationMessages.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/internal/InternalApiTypeElementVisitor.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/SizeValidator.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/exceptions/package-info.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/ReactiveValidator.java

*

/opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/PatternValidator.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/async/package-info.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/extractors/ValueExtractorRegistry.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/DecimalMinValidator.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/constraints/AbstractPatternValidator.java

* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-jar/io/micronaut/validation/validator/ExecutableMethodValidator.java

*

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/opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/validator/constraints/ConstraintValidator.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/validator/DefaultValidatorFactory.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/exceptions/ConstraintExceptionHandler.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/validator/DefaultAnnotatedElementValidator.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/validator/extractors/SimpleValueReceiver.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/Validated.java
*

/opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/validator/DefaultValidator.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/ValidatingInterceptor.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/validator/constraints/DomainNameUtil.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/validator/DefaultClockProvider.java
* /opt/cola/permits/1668044406_1683573248.7748783/0/micronaut-validation-3-9-0-sources-
jar/io/micronaut/validation/executable/package-info.java

```

1.168 micronaut-router 3.9.0

1.168.1 Available under license :

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```

* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-

```

jar/io/micronaut/web/router/version/resolution/HeaderVersionResolver.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/resource/StaticResourceResolver.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/StatusRoute.java
*
/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/resource/StaticResourceConfiguration.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/version/RoutesVersioningConfiguration.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/naming/ConfigurableUriNamingStrategy.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/UriRoute.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/naming/HyphenatedUriNamingStrategy.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/version/resolution/RequestVersionResolver.java
*
/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/package-info.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/RouteBuilder.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/filter/RouteMatchFilter.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/ErrorMessageMatch.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/StatusRouteMatch.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/DefaultUriRouteMatch.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/DefaultRouteBuilder.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/exceptions/RoutingException.java
*
/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/FilterRoute.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/RouteMatch.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/resource/package-info.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/version/resolution/ParameterVersionResolver.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/GroovyRouteBuilder.groovy
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/BeanDefinitionFilterRoute.java

* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/MethodBasedRoute.java
*
/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/exceptions/UnsatisfiedPartRouteException.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/version/resolution/VersionResolver.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/qualifier/package-info.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/DefaultRouter.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/UriRouteMatch.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/exceptions/UnsatisfiedPathVariableRouteException.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/version/VersionRouteMatchFilter.java
*
/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/UnresolvedArgument.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/Router.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/exceptions/package-info.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/qualifier/ProducesMediaTypeQualifier.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/version/RouteVersionFilter.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/AnnotatedFilterRouteBuilder.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/version/package-info.java
*
/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/BasicObjectRouteMatch.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/RouteMatchUtils.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/AnnotatedMethodRouteBuilder.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/MethodBasedRouteMatch.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/version/resolution/HeaderVersionResolverConfiguration.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/exceptions/UnsatisfiedQueryValueRouteException.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-jar/io/micronaut/web/router/exceptions/UnsatisfiedRouteException.java
*

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/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
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* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/version/resolution/package-info.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/ResourceRoute.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/exceptions/UnsatisfiedBodyRouteException.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/AbstractRouteMatch.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/naming/package-info.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/DefaultFilterRoute.java
*
/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/qualifier/ConsumesMediaTypeQualifier.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/version/DefaultVersionProvider.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/version/VersionAwareRouterListener.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/exceptions/UnsatisfiedRequestAttributeRouteException.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/Route.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/ErrorResponse.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/exceptions/DuplicateRouteException.java
*
/opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/exceptions/UnsatisfiedCookieValueRouteException.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/NullArgument.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/version/resolution/ParameterVersionResolverConfiguration.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
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* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
jar/io/micronaut/web/router/exceptions/UnsatisfiedHeaderRouteException.java
* /opt/cola/permits/1668044608_1683576589.0703561/0/micronaut-router-3-9-0-sources-
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1.169 micronaut-http-client 3.9.0

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 - * /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-jar/io/micronaut/http/client/netty/ssl/package-info.java
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 - * /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-jar/io/micronaut/http/client/netty/websocket/package-info.java
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 - * /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-jar/io/micronaut/http/client/netty/NettyClientHttpRequest.java
 - * /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-jar/io/micronaut/http/client/netty/NettyClientHttpRequestFactory.java
 - * /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-jar/io/micronaut/http/client/netty/IdleTimeoutHandler.java
 - * /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-jar/io/micronaut/http/client/netty/package-info.java
 - * /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-jar/io/micronaut/http/client/netty/websocket/NettyWebSocketClientHandler.java
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* /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-
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* /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-
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jar/io/micronaut/http/client/netty/SimpleChannelInboundHandlerInstrumented.java
* /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-
jar/io/micronaut/http/client/netty/DefaultHttpClient.java
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jar/io/micronaut/http/client/netty/CompositeNettyClientCustomizer.java
* /opt/cola/permits/1668044657_1683576287.4511712/0/micronaut-http-client-3-9-0-sources-
jar/io/micronaut/http/client/netty/NettyPromiseSubscriber.java
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1.170 micronaut-http-netty 3.9.0

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- *

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- * /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-jar/io/micronaut/http/netty/stream/DelegateHttpMessage.java
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* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
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* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
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jar/io/micronaut/http/netty/cookies/NettyCookieFactory.java
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jar/io/micronaut/http/netty/stream/DelegateStreamedHttpRequest.java
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jar/io/micronaut/http/netty/graal/MicronautSubstitutions.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
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jar/io/micronaut/http/netty/stream/DelegateStreamedHttpResponse.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/channel/KQueueEventLoopGroupFactory.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/NettyHttpParameters.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/graal/HttpNettyFeature.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/stream/StreamingInboundHttp2ToHttpAdapter.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/NettyHttpRequestBuilder.java
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/opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/reactive/CancelledSubscriber.java
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jar/io/micronaut/http/netty/channel/converters/KQueueChannelOptionFactory.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/channel/package-info.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/reactive/HandlerPublisher.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/channel/EpollAvailabilityCondition.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/stream/DefaultStreamedHttpResponse.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/content/package-info.java
*
/opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/stream/StreamedHttpRequest.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/websocket/package-info.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/channel/ChannelPipelineCustomizer.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/stream/DefaultWebSocketHttpResponse.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/stream/EmptyHttpRequest.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/LastHttp2Content.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/stream/Http2Content.java
*

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* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/stream/DefaultStreamedHttpRequest.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/configuration/NettyGlobalConfiguration.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/channel/converters/DefaultChannelOptionFactory.java
* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-
jar/io/micronaut/http/netty/channel/EventLoopGroupConfiguration.java
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* /opt/cola/permits/1668044757_1683573492.9387238/0/micronaut-http-netty-3-9-0-sources-jar/io/micronaut/http/netty/reactive/package-info.java

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- * /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/annotation/Read.java
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- * /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/routes/RouteDataCollector.java
- * /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/routes/package-info.java
- * /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/health/HealthLevelOfDetail.java
- * /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/source/BuildInfoSource.java
- * /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/source/ConfigurationInfoSource.java
- * /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/aggregator/DefaultHealthAggregator.java

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/opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/diskspace/DiskSpaceIndicator.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/routes/RoutesEndpoint.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/threads/impl/DefaultThreadInfoMapper.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/loggers/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/loggers/LoggersEndpoint.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/aggregator/HealthAggregator.java
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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/annotation/Write.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/threads/ThreadDumpEndpoint.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/loggers/LoggerConfiguration.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/health/HealthEndpoint.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/beans/BeansEndpoint.java
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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/routes/impl/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/env/EnvironmentEndpoint.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/health/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/source/PropertiesInfoSource.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/annotation/Selector.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/diskspace/DiskSpaceIndicatorConfiguration.java
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/opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/monitor/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/InfoAggregator.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/service/ServiceReadyHealthIndicator.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/health/filter/HealthResultFilter.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/AbstractHealthIndicator.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/loggers/impl/DefaultLoggersManager.java

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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/discovery/package-info.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/discovery/DiscoveryClientHealthIndicatorConfiguration.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/impl/ReactiveInfoAggregator.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/jdbc/package-info.java

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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/stop/ServerStopEndpoint.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/EndpointsFilter.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/package-info.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/annotation/package-info.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/stop/package-info.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/InfoSource.java

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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/annotation/Endpoint.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/monitor/HealthMonitorTask.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/loggers/ManagedLoggingSystem.java

* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/beans/impl/DefaultBeanDefinitionData.java

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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/HealthCheckType.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/processors/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/annotation/Readiness.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/beans/BeanDefinitionData.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/impl/package-info.java
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/opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/discovery/DiscoveryClientHealthIndicator.java
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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/threads/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/annotation/Sensitive.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/routes/impl/DefaultRouteDataCollector.java
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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/health/DetailsVisibility.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/refresh/RefreshEndpoint.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/env/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/routes/RouteData.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/EndpointConfiguration.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/endpoint/info/source/GitInfoSource.java
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* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-jar/io/micronaut/management/health/indicator/annotation/Liveness.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-

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jar/io/micronaut/management/endpoint/beans/package-info.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-
jar/io/micronaut/management/endpoint/processors/DeleteEndpointRouteBuilder.java
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INF/native-image/io.micronaut.management/micronaut-management/native-image.properties
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jar/io/micronaut/management/endpoint/env/EnvironmentEndpointFilter.java
* /opt/cola/permits/1668044438_1683573307.1608768/0/micronaut-management-3-9-0-sources-
jar/io/micronaut/management/endpoint/env/EnvironmentFilterSpecification.java
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1.172 micronaut-aop 3.9.0

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 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/internal/InterceptorBeanMapper.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/AroundConstruct.java
 - *
 - /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/chain/AbstractInterceptorChain.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/InterceptorRegistry.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/ConstructorInterceptor.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/ConstructorInvocationContext.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/InterceptorBean.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/chain/DefaultInterceptorRegistry.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/kotlin/KotlinInterceptedMethod.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/internal/InterceptorRegistryBean.java
 - *
 - /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/chain/ConstructorInterceptorChain.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/InterceptorBindingDefinitions.java
 - * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/InterceptorBinding.java
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- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/Introduction.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/InvocationContext.java
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- /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/util/CompletableFutureContinuation.kt
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/Around.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/MethodInvocationContext.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/internal/intercepted/KotlinInterceptedMethod.java
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- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/MethodInterceptor.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/internal/intercepted/PublisherInterceptedMethod.java
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- /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/InterceptedMethod.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/util/KotlinInterceptedMethodHelper.kt
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/Interceptor.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/writer/AopProxyWriter.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/internal/intercepted/SynchronousInterceptedMethod.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-jar/io/micronaut/aop/chain/InterceptorChain.java
- * /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-

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jar/io/micronaut/aop/Intercepted.java
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* /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-
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* /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-
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/opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-
jar/io/micronaut/aop/Adapter.java
* /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-
jar/io/micronaut/aop/chain/package-info.java
* /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-
jar/io/micronaut/aop/internal/intercepted/CompletionStageInterceptedMethod.java
* /opt/cola/permits/1668044597_1683573383.0943854/0/micronaut-aop-3-9-0-sources-
jar/io/micronaut/aop/chain/AdapterIntroduction.java

```

1.173 micronaut-runtime 3.9.0

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Found in path(s):

```

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/META-INF/native-
image/io.micronaut/micronaut-runtime/native-image.properties

```

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* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/reactive/reactor/instrument/ReactorSubscriber.java
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* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/reactive/reactor/instrument/ReactorInstrumentation.java
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* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/event/RetryEvent.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/ServiceInstanceList.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/exception/CircuitOpenException.java

*

/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanMetadataConfiguration.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/exceptions/DiscoveryException.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/annotation/RetryPredicate.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/intercept/AnnotationRetryStateBuilder.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/cloud/ComputeInstanceMetadata.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/health/HeartbeatDiscoveryClientCondition.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/logging/LoggingSystem.java

*

/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/intercept/SimpleRetry.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/annotation/Fallback.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/registration/RegistrationConfiguration.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/event/package-info.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/config/package-info.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/cloud/ComputeInstanceMetadataResolver.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanMetadataResolver.java

*

/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/cloud/NetworkInterface.java

```

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/cloud/ComputeInstanceMetadataResolverUtils.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/annotation/Retryable.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/runtime/http/codecs/TextPlainCodec.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/DefaultServiceInstance.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/intercept/package-info.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/package-info.java
*
/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/annotation/DefaultRetryPredicate.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/health/DefaultCurrentHealthStatus.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/DefaultServiceInstanceIdGenerator.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/annotation/package-info.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/health/HealthStatus.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/DiscoveryClient.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/registration/AutoRegistration.java
*
/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/package-info.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/intercept/MutableRetryState.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/health/HeartbeatTask.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/config/ConfigDiscoveryConfiguration.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/config/DefaultCompositeConfigurationClient.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/exceptions/NoAvailableServiceException.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/runtime/http/scope/RequestScope.java
*
/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/registration/package-info.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/cloud/package-info.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-

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jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanMetadataKeys.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/event/CircuitOpenEvent.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/registration/RegistrationException.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/RetryStateBuilder.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/intercept/RecoveryInterceptor.java
*
/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
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* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/reactive/flow/converters/FlowConverterRegistrar.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/config/ConfigurationClient.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/health/package-info.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanInstanceMetadata.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/RetryState.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/DefaultCompositeDiscoveryClient.java
*
/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/exception/RetryException.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/logging/LogLevel.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/CircuitState.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/metadata/package-info.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/event/RetryEventListener.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/event/ServiceReadyEvent.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/retry/annotation/CircuitBreaker.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/logging/PropertiesLoggingLevelsConfigurer.java
*
/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/cloud/AbstractComputeInstanceMetadata.java
* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
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* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-
jar/io/micronaut/discovery/cloud/digitalocean/DigitalOceanNetworkInterface.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/ServiceInstance.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/CompositeDiscoveryClient.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/metadata/ServiceInstanceMetadataContributor.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/event/package-info.java

*

/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/runtime/http/scope/RequestCustomScope.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/health/HeartbeatEvent.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/event/AbstractServiceInstanceEvent.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/event/ServiceStoppedEvent.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/ServiceInstanceIdGenerator.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/runtime/http/codecs/package-info.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/EmbeddedServerInstance.java

*

/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/DiscoveryConfiguration.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/annotation/Recoverable.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/reactive/package-info.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/intercept/CircuitBreakerRetry.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/health/HeartbeatEnabled.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/logging/impl/Log4jLoggingSystem.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/StaticServiceInstanceList.java

*

/opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/runtime/http/scope/RequestAware.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/health/HeartbeatConfiguration.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/retry/intercept/DefaultRetryInterceptor.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-jar/io/micronaut/discovery/exceptions/package-info.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-

jar/io/micronaut/retry/exception/FallbackException.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-

jar/io/micronaut/retry/event/CircuitClosedEvent.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-

jar/io/micronaut/health/CurrentHealthStatus.java

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* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-

jar/io/micronaut/logging/impl/LogbackLoggingSystem.java

* /opt/cola/permits/1668044524_1683573339.589278/0/micronaut-runtime-3-9-0-sources-

jar/io/micronaut/logging/impl/LogbackUtils.java

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1.176 micronaut-grpc-client-runtime 3.6.0

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```

Found in path(s):

```
* /opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/META-INF/native-image/io.micronaut.grpc/micronaut-grpc-client-runtime/native-image.properties
```

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```

```
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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/io/micronaut/grpc/channels/GrpcDefaultManagedChannelConfiguration.java
```

```
* /opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/io/micronaut/grpc/channels/GrpcManagedChannelConfiguration.java
```

```
*
```

```
/opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/io/micronaut/grpc/channels/GrpcChannelBuilderFactory.java
```

```
* /opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/io/micronaut/grpc/channels/package-info.java
```

```
* /opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/io/micronaut/grpc/discovery/GrpcNameResolverProvider.java
```

```
* /opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/io/micronaut/grpc/channels/GrpcNamedManagedChannelConfiguration.java
```

```
* /opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/io/micronaut/grpc/discovery/package-info.java
```

* /opt/cola/permits/1682034960_1684512059.4871073/0/micronaut-grpc-client-runtime-3-6-0-sources-jar/io/micronaut/grpc/channels/GrpcManagedChannelFactory.java

1.177 micronaut-grpc-opentracing 3.6.0

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```

Found in path(s):

```
* /opt/cola/permits/1682035089_1684512005.6856077/0/micronaut-grpc-opentracing-3-6-0-sources-jar/io/micronaut/grpc/server/tracing/GrpcServerTracingInterceptorConfiguration.java
* /opt/cola/permits/1682035089_1684512005.6856077/0/micronaut-grpc-opentracing-3-6-0-sources-jar/io/micronaut/grpc/client/tracing/package-info.java
*
/opt/cola/permits/1682035089_1684512005.6856077/0/micronaut-grpc-opentracing-3-6-0-sources-jar/io/micronaut/grpc/server/tracing/package-info.java
* /opt/cola/permits/1682035089_1684512005.6856077/0/micronaut-grpc-opentracing-3-6-0-sources-jar/io/micronaut/grpc/client/tracing/GrpcClientTracingInterceptorConfiguration.java
* /opt/cola/permits/1682035089_1684512005.6856077/0/micronaut-grpc-opentracing-3-6-0-sources-jar/io/micronaut/grpc/server/tracing/GrpcServerTracingInterceptorFactory.java
* /opt/cola/permits/1682035089_1684512005.6856077/0/micronaut-grpc-opentracing-3-6-0-sources-jar/io/micronaut/grpc/client/tracing/GrpcClientTracingInterceptorFactory.java
```

1.178 micronaut-grpc-annotation 3.6.0

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Found in path(s):

```

* /opt/cola/permits/1682035057_1684512014.2964008/0/micronaut-grpc-annotation-3-6-0-sources-
jar/io/micronaut/grpc/annotation/GrpcChannel.java
* /opt/cola/permits/1682035057_1684512014.2964008/0/micronaut-grpc-annotation-3-6-0-sources-
jar/io/micronaut/grpc/annotation/GrpcService.java

```

1.179 aop-alliance 2.6.1

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```

{\rtf1\ansi\ansicpg1252\cocoartf1671\cocoasubrtf600
{\fonttbl\f0\froman\fcharset0 Times-Roman;\f1\fmmodern\fcharset0 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

\f0\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

\f1\fs26 \cf2 <!--\
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\

-->\

```
<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

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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* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/GrpcServerBuilder.java

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* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/package-info.java

* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/GrpcServerConfiguration.java

* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/GrpcEmbeddedServer.java

*

/opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/GrpcServerInstance.java

* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/GrpcSslConfiguration.java

* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/GrpcServerChannel.java

* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/GrpcEmbeddedServerListener.java

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* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/graalvm/HttpNettyFeature.java

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* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/io/micronaut/grpc/server/interceptor/OrderedServerInterceptor.java

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* /opt/cola/permits/1703220402_1685662145.560743/0/micronaut-grpc-server-runtime-3-6-0-sources-jar/META-INF/native-image/io.micronaut.grpc/micronaut-grpc-server-runtime/native-image.properties

1.181 micronaut-grpc-runtime 3.6.0

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Found in path(s):

* /opt/cola/permits/1703220434_1686322316.0607262/0/micronaut-grpc-runtime-3-6-0-jar/META-INF/maven/io.micronaut.grpc/micronaut-grpc-runtime/pom.xml

1.182 micronaut-security 3.11.0

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1.183 micronaut-grpc-health 3.6.0

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Found in path(s):

```
*/opt/cola/permits/1703220418_1685662149.2842813/0/micronaut-grpc-health-3-6-0-sources-
jar/io/micronaut/grpc/server/health/GrpcServerHealthIndicator.java
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```
*/opt/cola/permits/1703220418_1685662149.2842813/0/micronaut-grpc-health-3-6-0-sources-
jar/io/micronaut/grpc/server/health/HealthStatusManagerContainer.java
*/opt/cola/permits/1703220418_1685662149.2842813/0/micronaut-grpc-health-3-6-0-sources-
jar/io/micronaut/grpc/server/health/GrpcHealthFactory.java
```

1.184 micronaut-security-jwt 3.11.0

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* /opt/cola/permits/1703220410_1685662153.9748392/0/micronaut-security-jwt-3-11-0-jar/META-INF/native-image/io.micronaut.security/token-jwt/native-image.properties

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1.185 micronaut-protobuf-support 3.6.0

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* /opt/cola/permits/1703220426_1685662147.954895/0/micronaut-protobuf-support-3-6-0-sources-jar/io.micronaut.protobuf/convert/ByteBufToProtoMessageConverter.java

* /opt/cola/permits/1703220426_1685662147.954895/0/micronaut-protobuf-support-3-6-0-sources-jar/io.micronaut.protobuf/convert/ProtoMessageToByteBufConverter.java

*

/opt/cola/permits/1703220426_1685662147.954895/0/micronaut-protobuf-support-3-6-0-sources-jar/io/micronaut/protobuf/codec/ExtensionRegistryFactory.java
* /opt/cola/permits/1703220426_1685662147.954895/0/micronaut-protobuf-support-3-6-0-sources-jar/io/micronaut/protobuf/codec/ProtobufferCodec.java

1.186 micronaut-discovery-client 3.3.1

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1.187 j2objc-annotations 2.8

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```
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/OnDealloc.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/LoopTranslation.java
*
```

```
/opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/WeakOuter.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/RetainedWith.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/ObjectiveCName.java
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```
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/Weak.java
```

```
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/AutoreleasePool.java
```

1.188 slf4j-impl 1.7.36

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1.189 jackson-jr-annotation-support 2.15.2

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1.190 everit-json-schema 1.14.2

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* /opt/cola/permits/1747418717_1689680862.827911/0/everit-json-schema-1-14-2-sources-jar/org/everit/json/schema/internal/JSONWriter.java

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* /opt/cola/permits/1747418717_1689680862.827911/0/everit-json-schema-1-14-2-sources-jar/org/everit/json/schema/JSONPointerException.java

* /opt/cola/permits/1747418717_1689680862.827911/0/everit-json-schema-1-14-2-sources-jar/org/everit/json/schema/JSONPointer.java

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1.191 jackson-jr-objects 2.15.2

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1.192 classgraph 4.8.158

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* Author: Luke Hutchison
*
* Hosted at: https://github.com/classgraph/classgraph
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jar/nonapi/io/github/classgraph/fileslice/Slice.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessReader.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/fileslice/ArraySlice.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/fileslice/PathSlice.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java

*
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jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessFileChannelReader.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/SequentialReader.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/fileslice/FileSlice.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/ClassfileReader.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessByteBufferReader.java
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/*
* This file is part of ClassGraph.
*
* Author: Luke Hutchison
*
* Hosted at: <https://github.com/classgraph/classgraph>
*
* --

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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/io/github/classgraph/AnnotationParameterValue.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/io/github/classgraph/MethodTypeSignature.java
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jar/io/github/classgraph/Resource.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
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jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
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jar/io/github/classgraph/MethodParameterInfo.java
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jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java
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jar/io/github/classgraph/MappableInfoList.java
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/GraphvizDotfileGenerator.java
*
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/PlexusClassWorldsClassRealmClassLoaderHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/BaseTypeSignature.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONUtils.java
*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/Classfile.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ClasspathElement.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/Scanner.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/CollectionUtils.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/PackageInfo.java
*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ClassGraphException.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ClasspathElementDir.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/reflection/ReflectionUtils.java
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/HasName.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONArray.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderFinder.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ArrayTypeSignature.java
*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONReference.java
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/JPMSCClassLoaderHandler.java
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/FieldInfoList.java
*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/types/ParseException.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ScanResultObject.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/AnnotationEnumValue.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/types/Parser.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/LogNode.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-

jar/io/github/classgraph/TypeArgument.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java
*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/VersionFinder.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/recycler/Resetable.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/AnnotationInfoList.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ClassMemberInfo.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/ProxyingInputStream.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ArrayClassInfo.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/MethodInfo.java
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/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/types/TypeUtils.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/Utils/StringUtils.java
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*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/FallbackClassLoaderHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ClasspathElementZip.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/recycler/Recycler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/TypeParameter.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONParser.java
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/utils/JarUtils.java
*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ObjectTypedValueWrapper.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/FieldInfo.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/PotentiallyUnmodifiableList.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/PackageInfoList.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/utils/FileUtils.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/json/JSONObject.java
*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/HierarchicalTypeSignature.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classpath/ModuleFinder.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ModuleInfo.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/concurrency/InterruptedExceptionChecker.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ClassTypeSignature.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/ClassInfoList.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-

jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java

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/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/UnoOneJarClassLoaderHandler.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/scanspec/AcceptReject.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/io/github/classgraph/MethodInfoList.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/io/github/classgraph/TypeVariableSignature.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/io/github/classgraph/ModuleRef.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/json/ClassFields.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/urls/URLPathEncoder.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/io/github/classgraph/ReferenceTypeSignature.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/io/github/classgraph/ClassInfo.java

* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/io/github/classgraph/AnnotationClassRef.java

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/*

* This file is part of ClassGraph.

*

* Author: @jacobg on GitHub

*

* Hosted at: <https://github.com/classgraph/classgraph>

*

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*

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*

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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/classloaderhandler/AntClassLoaderHandler.java
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/*

* This file is part of ClassGraph.

*

* Author: Johno Crawford (johno@sulake.com)

*

* Hosted at: <https://github.com/classgraph/classgraph>

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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/nonapi/io/github/classgraph/concurrency/SimpleThreadFactory.java
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*

* Author: Luke Hutchison

*

* Hosted at: <https://github.com/classgraph/classgraph>

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* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-jar/io/github/classgraph/CloseableByteBuffer.java

```
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/CxfContainerClassLoaderHandler.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/reflection/ReflectionDriver.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/reflection/NarcissusReflectionDriver.java
* /opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/reflection/JVMDriverReflectionDriver.java
*
/opt/cola/permits/1756038422_1690862953.5822532/0/classgraph-4-8-158-sources-
jar/nonapi/io/github/classgraph/reflection/StandardReflectionDriver.java
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*
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* Author: Michael J. Simons

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jar/nonapi/io/github/classgraph/classloaderhandler/SpringBootRestartClassLoaderHandler.java
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1.193 guava 32.1.2-jre

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1.194 kubernetes-model-common 6.7.2

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* /opt/cola/permits/1768005902_1692291596.9290588/0/kubernetes-model-common-6-7-2-sources-jar/io/fabric8/kubernetes/model/annotation/Version.java

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* /opt/cola/permits/1768005902_1692291596.9290588/0/kubernetes-model-common-6-7-2-sources-jar/io/fabric8/kubernetes/model/jackson/BeanPropertyWriterDelegate.java

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1.195 kubernetes-client 6.7.2

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1.196 kubernetes-httpclient-okhttp 6.7.2

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#
```

io.fabric8.kubernetes.client.okhttp.OkHttpClientFactory

Found in path(s):

```
* /opt/cola/permits/1768005917_1692291773.5950506/0/kubernetes-httpclient-okhttp-6-7-2-sources-jar/META-INF/services/io.fabric8.kubernetes.client.http.HttpClient$Factory  
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* /opt/cola/permits/1768005917_1692291773.5950506/0/kubernetes-httpclient-okhttp-6-7-2-sources-jar/META-INF/maven/io.fabric8/kubernetes-httpclient-okhttp/pom.xml

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* /opt/cola/permits/1768005917_1692291773.5950506/0/kubernetes-httpclient-okhttp-6-7-2-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientImpl.java

* /opt/cola/permits/1768005917_1692291773.5950506/0/kubernetes-httpclient-okhttp-6-7-2-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpWebSocketImpl.java

*

* /opt/cola/permits/1768005917_1692291773.5950506/0/kubernetes-httpclient-okhttp-6-7-2-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientBuilderImpl.java

* /opt/cola/permits/1768005917_1692291773.5950506/0/kubernetes-httpclient-okhttp-6-7-2-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientFactory.java

1.197 kubernetes-model-flowcontrol 6.7.2

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1.198 kubernetes-model 6.7.2

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1.199 kubernetes-model-node 6.7.2

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- * /opt/cola/permits/1768005950_1692291611.540381/0/kubernetes-model-node-6-7-2-sources-jar/manifest.vm

1.200 kubernetes-model-gatewayapi 6.7.2

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- * /opt/cola/permits/1768005924_1692291708.0570166/0/kubernetes-model-gatewayapi-6-7-2-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-gatewayapi/pom.xml

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1.201 kubernetes-client-api 6.7.2

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1.202 kubernetes-model-resource 6.7.2

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* /opt/cola/permits/1768005903_1692291761.5825744/0/kubernetes-model-resource-6-7-2-jar/manifest.vm

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: Java client for Kubernetes and OpenShift

Bundle-DocURL: <http://redhat.com>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Fabric8 :: Kubernetes Model :: Resource

Bundle-SymbolicName: io.fabric8.kubernetes-model-resource

Bundle-Vendor: Red Hat

Bundle-Version: 6.7.2

Created-By: Apache Maven Bundle Plugin 5.1.9

Export-Package: io.fabric8.kubernetes.api.model.resource.v1alpha1;uses
:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,co
m.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.bui
lder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.anno
tation";version="6.7.2"

Implementation-URL: <http://fabric8.io/kubernetes-model-generator/kubernetes-model-resource/>

Import-Package: com.fasterxml.jackson.annotation;version="[2.15,3)",co
m.fasterxml.jackson.databind;version="[2.15,3)",com.fasterxml.jackson
.databind.annotation;version="[2.15,3)",io.fabric8.kubernetes.api.bui
lder;version="[6.7,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.model.annotation;version="[6.7,7)"

Include-Resource: META-INF/services/io.fabric8.kubernetes.api.model.Ku
bernetesResource=target/classes/META-INF/services/io.fabric8.kubern
etes.api.model.KubernetesResource,manifest.vm=src/main/resources/manife
st.vm,schema/kube-schema.json=src/main/resources/schema/kube-schema.j
son,schema/validation-schema.json=src/main/resources/schema/validatio
n-schema.json,/META-INF/jandex.idx=target/classes/META-INF/jandex.idx

Private-Package: schema
Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.kubernetes.api.model.KubernetesResource"
Require-Capability: osgi.extender;filter:="(osgi.extender=osgi.serviceloader.registrar)",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git /kubernetes-model-generator/kubernetes-model-resource
Scm-Revision: \${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-model-generator/kubernetes-model-resource/
Specification-Title: Fabric8 :: Kubernetes Model :: Resource
Specification-Vendor: Red Hat
Specification-Version: 6.7
Tool: Bnd-6.3.1.202206071316

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* /opt/cola/permits/1768005903_1692291761.5825744/0/kubernetes-model-resource-6-7-2-jar/META-INF/MANIFEST.MF

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1.203 micronaut-serde-jackson 1.5.2

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1.204 micronaut-serde-api 1.5.2

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1.205 micronaut-serde-support 1.5.2

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1.206 okio 3.2.0

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- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/internal/ResourceFileSystemTest.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/internal/FixedLengthSource.kt
- *
- /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/FixedLengthSourceTest.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/mingwX64Main/okio/WindowsFileHandle.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/JvmFileHandle.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/unixMain/okio/UnixFileHandle.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/utilJvm.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/FileHandle.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/internal/ResourceFileSystem.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/TimeoutTest.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmTest/okio/utilNonJvm.kt
- *
- /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/ZipFileSystemTest.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/FileSystem.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nativeMain/okio/FileSystem.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/FileHandleTestingFileSystem.kt
- * /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/internal/FileSystem.kt

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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/internal/-SegmentedByteString.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/internal/-RealBufferedSource.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/internal/-RealBufferedSink.kt

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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/Path.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/FakeFileSystemTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/ForwardingFileSystemTest.kt

*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/appleMain/okio/ByteString.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/hashFunctions/okio/internal/Hmac.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/mingwX64Main/okio/-Windows.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nativeMain/okio/-PosixVariant.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/unixMain/okio/-UnixPosixVariant.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/appleMain/okio/-ApplePosixVariant.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/HashingSink.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/Path.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/FileSystemJavaTest.java

*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/ZipFileSystemJavaTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/mingwX64Main/okio/-WindowsPosixVariant.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/internal/Hmac.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nativeMain/okio/FileSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nativeMain/okio/PosixFileSystem.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/HashingSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/Path.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/ForwardingFileSystem.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/FileSystem.kt
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/HashingSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/JvmSystemFileSystemTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/JvmTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nativeMain/okio/-Cinterop.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/FileMetadata.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/internal/HmacTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nativeMain/okio/FileSink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jsMain/okio/-JsPlatform.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/PathTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/NioSystemFileSystem.kt
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/appleTest/okio/AppleByteStringTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jsMain/okio/FileSystem.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/linuxX64Main/okio/-LinuxX64PosixVariant.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/ExperimentalFileSystem.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/JvmSystemFileSystem.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nativeTest/okio/NativeSystemFileSystemTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/internal/-Path.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/UnsafeCursorTest.kt
*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/HashingSink.kt
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DeprecatedUpgrade.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/-
DeprecatedUtf8.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-
jar/jvmTest/okio/ByteStringKotlinTest.kt

*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/-DeprecatedOkio.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-
jar/jvmTest/okio/ForwardingTimeoutKotlinTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/GzipKotlinTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-
jar/commonMain/okio/PeekSource.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-
jar/jvmTest/okio/ThrottlerTakeTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/BufferKotlinTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/NioTest.java

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-
jar/jvmTest/okio/BufferCursorKotlinTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/PipeKotlinTest.kt

*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-
jar/jvmTest/okio/BufferCursorTest.java

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/ThrottlerTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-
jar/jvmTest/okio/DeflateKotlinTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-
jar/jvmTest/okio/ForwardingTimeoutTest.java

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/Utf8KotlinTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/Stopwatch.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/CommonOptionsTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/Throttler.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/OkioKotlinTest.kt
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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/internal/ZipEntry.kt

*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/internal/zip.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/ZipFileSystem.kt

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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/CipherAlgorithm.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/CipherSinkTest.kt
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/hashFunctions/okio/internal/HashFunction.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/CipherFactory.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/internal/HashFunction.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/CipherSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/CipherSink.kt
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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/Source.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/CommonRealBufferedSinkTest.kt
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/AbstractBufferedSinkTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/AbstractBufferedSourceTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/BufferedSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/BufferedSink.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/BufferedSourceFactory.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/Buffer.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/util.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/Okio.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/CommonOkioKotlinTest.kt
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/BufferedSink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/Buffer.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/BufferFactory.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/BufferCommonTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/Timeout.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/Sink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/RealBufferedSink.kt
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/internal/Buffer.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/Timeout.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/Sink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/BufferedSinkFactory.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/CommonRealBufferedSourceTest.kt
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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/-Util.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/ByteString.kt

*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/-

CommonPlatform.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/internal/-

Utf8.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/internal/-

ByteString.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-

jar/commonTest/okio/ByteStringTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/-

NonJvmPlatform.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/ByteString.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-

jar/commonTest/okio/ByteStringFactory.kt

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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/BufferedSource.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-

jar/jvmTest/okio/BufferedSourceJavaTest.java

*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/ForwardingSink.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-

jar/jvmTest/okio/BufferedSourceTest.java

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-

jar/jvmTest/okio/AsyncTimeoutTest.java

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-

jar/jvmTest/okio/InflaterSourceTest.java

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-

jar/nonJvmMain/okio/ForwardingSource.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/Sink.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/MockSink.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-

jar/jvmMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/SegmentPool.kt
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/DeflaterSinkTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/GzipSourceTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/BufferedSinkTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/Utf8Test.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/OkioTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/GzipSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/SegmentPool.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/JvmOkio.kt
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/TestUtil.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/Segment.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/ForwardingSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/BufferedSinkJavaTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/Buffer.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/BufferedSink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/AsyncTimeout.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/ForwardingSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/GzipSinkTest.java
*
/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/InflaterSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/GzipSink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/Timeout.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/SegmentPool.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/CommonBufferTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/SocketTimeoutTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/DeflaterSink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/ReadUtf8LineTest.java
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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/ByteStringJavaTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/HashingTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/ByteString.kt
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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/HashingSink.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/LargeStreamsTest.java
*
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/HashingSource.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/Pipe.kt

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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/PipeTest.java
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/Options.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/HashingSourceTest.kt
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonTest/okio/HashingSinkTest.kt
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```

```
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/commonMain/okio/SegmentedByteString.kt
```

```
* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmMain/okio/SegmentedByteString.kt
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 /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/SegmentSharingTest.kt
```

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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/nonJvmMain/okio/SegmentedByteString.kt
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* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/internal/Sha512.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/hashFunctions/okio/internal/Md5.kt

*

/opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/hashFunctions/okio/internal/Sha512.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/MessageDigestConsistencyTest.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/internal/Sha1.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/hashFunctions/okio/internal/Sha1.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/internal/Sha256.kt

* /opt/cola/permits/1779683680_1693137064.5227244/0/okio-3-2-0-sources-2-jar/jvmTest/okio/internal/Md5.kt

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com.hazelcast.internal.util.collection
com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.internal.util.QuickMath
com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(<https://github.com/real-logic/Agrona>).

The class com.hazelcast.internal.util.HashUtil contains code originating from the Koloboke project (<https://github.com/OpenHFT/Koloboke>).

The class classloading.ThreadLocalLeakTestUtils contains code originating from the Tomcat project (<https://github.com/apache/tomcat>).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating from the Akka project (<https://github.com/akka/akka/>).

The package com.hazelcast.internal.json contains code originating from minimal-json project (<https://github.com/ralfstx/minimal-json>).

The class com.hazelcast.instance.impl.MobyNames contains code originating from The Moby Project (<https://github.com/moby/moby>).

The class com.hazelcast.internal.util.graph.BronKerboschCliqueFinder contains code originating from The JGraphT Project (<https://github.com/jgrapht/jgrapht>).

The packages:
com.hazelcast.sql
com.hazelcast.jet.sql

contain code originating from the Apache Calcite (<https://github.com/apache/calcite>)

The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains code derived from the Apache Flink project.

The class com.hazelcast.internal.util.ConcurrentReferenceHashMap contains code written by Doug Lea and updated within the WildFly project (<https://github.com/wildfly/wildfly>).

The classes:
com.hazelcast.cp.internal.raft.impl.state.FollowerState
com.hazelcast.cp.internal.raft.impl.state.FollowerStateTest
com.hazelcast.cp.internal.raft.impl.SlowFollowerBackoffTest

contain code originating from the MicroRaft project (<https://github.com/MicroRaft/MicroRaft>)
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> ****I'm using Elasticsearch via APIs, how does this change affect me?***

>

> This change does not affect how you use client libraries to access Elasticsearch. Our client libraries remain licensed under Apache 2.0, with the exception of our Java High Level Rest Client (Java HLRC).

>

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>

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>

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1.209 hazelcast-tpc-engine 5.3.2

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Java Concurrency Tools Core Library:4.0.1

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jar/com/hazelcast/internal/tpcengine/nio/NioAcceptRequest.java
* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-
jar/com/hazelcast/internal/tpcengine/nio/NioAsyncSocketOptions.java
*
/opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-
jar/com/hazelcast/internal/tpcengine/nio/NioEventloop.java

```

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/iobuffer/UnpooledIOBufferAllocator.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/util/StandardNanoClock.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/net/AsyncSocket.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/net/AbstractAsyncSocket.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/TpcEngineBuilder.java

*

/opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/util/BufferUtil.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/util/CachedNanoClock.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/net/AcceptRequest.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/iobuffer/package-info.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/serialization/SerializableByConvention.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/NopScheduler.java

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*

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* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/nio/NioAsyncSocket.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/nio/NioHandler.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/nio/SelectorOptimizer.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/util/CircularQueue.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/nio/NioAsyncSocketBuilder.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/net/AsyncServerSocketBuilder.java

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* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/util/Preconditions.java

* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/com/hazelcast/internal/tpcengine/Option.java

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```

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```
* /opt/cola/permits/1811335351_1696129323.2729497/0/hazelcast-tpc-engine-5-3-2-sources-jar/META-INF/maven/com.hazelcast/hazelcast-tpc-engine/pom.xml
```

1.210 byte-buddy-agent 1.14.1

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1.213 nimbus-jose-jwt 9.31

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1.214 netty-codec 4.1.100.Final

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* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java

*

/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Brotli.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Zstd.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java

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/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java

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jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-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
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* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
*

/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

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* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java

*

/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java

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jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/json/package-info.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
```

jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
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jar/io/netty/handler/codec/compression/Crc32.java
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jar/io/netty/handler/codec/AsciiHeadersEncoder.java
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jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java

```
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
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Found in path(s):

```
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/META-
INF/maven/io.netty/netty-codec/pom.xml
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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/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/SnappyOptions.java

```

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/EncoderUtil.java

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* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/Headers.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

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* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/DecoderException.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/EncoderException.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
*

/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-

```

jar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/serialization/package-info.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/MessageAggregator.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java

```

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
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Found in path(s):

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

*

/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-

```
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
*
/opt/cola/permits/1820904464_1697192357.6491582/0/netty-codec-4-1-100-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
```

1.215 netty-resolver 4.1.100.Final

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Found in path(s):

```
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-
jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-
jar/io/netty/resolver/HostsFileEntries.java
```

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Found in path(s):

* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/InetAddressResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
*
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/HostsFileParser.java

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Found in path(s):

* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

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Found in path(s):

* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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Found in path(s):

* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-

```
jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-
jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-
jar/io/netty/resolver/package-info.java
*
/opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-
jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-
jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-
jar/io/netty/resolver/NoopAddressResolver.java
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```

```
Found in path(s):
* /opt/cola/permits/1820904471_1697192352.9256797/0/netty-resolver-4-1-100-final-sources-
jar/io/netty/resolver/HostsFileEntriesProvider.java
```

1.216 netty 4.1.100.Final

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- */

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- * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
- * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/PriorityQueue.java
- * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
- *
- /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/NettyRuntime.java
- * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
- * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/SuppressForbidden.java
- * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
- * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
- * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java

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```
<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>
```

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  <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>
```

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  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
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```

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<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>${junit.version}</version>
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<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava-testlib</artifactId>
  <version>${guava-testlib.version}</version>
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</dependencies>
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    <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>
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      <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>
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      <artifactId>maven-source-plugin</artifactId>
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  </execution>
</executions>
</plugin>
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  <artifactId>maven-javadoc-plugin</artifactId>
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  <configuration>
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      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
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      <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/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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```
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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```
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jar/io/netty/util/NetUtilSubstitutions.java
```

```
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/NetUtilInitializations.java
```

```
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/DomainWildcardMappingBuilder.java
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/ResourceLeakHint.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/Mapping.java

*

/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/AsciiString.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/DomainNameMapping.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
*

/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java

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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java

*

/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/Hidden.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/svm/package-info.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ObjectPool.java
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/package-info.java
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/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/concurrent/EventExecutorGroup.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/logging/InternalLogLevel.java
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jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
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jar/io/netty/util/AbstractConstant.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/DefaultAttributeMap.java
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jar/io/netty/util/concurrent/SucceededFuture.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/AttributeKey.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/Timeout.java
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jar/io/netty/util/concurrent/GlobalEventExecutor.java
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jar/io/netty/util/Signal.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
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jar/io/netty/util/internal/package-info.java
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jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/Attribute.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/HashedWheelTimer.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/AttributeMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/logging/JdkLoggerFactory.java

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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/NetUtil.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
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jar/io/netty/util/Timer.java
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jar/io/netty/util/internal/logging/InternalLoggerFactory.java
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jar/io/netty/util/concurrent/BlockingOperationException.java
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

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jar/io/netty/util/internal/MacAddressUtil.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
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jar/io/netty/util/concurrent/PromiseCombiner.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/BooleanSupplier.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/SocketUtils.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/NativeLibraryUtil.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/DomainNameMappingBuilder.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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```

Found in path(s):

```
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/ByteObjectMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
```



```
jar/io/netty/util/collection/ShortCollections.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/CharObjectMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/IntCollections.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/LongCollections.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/LongObjectMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/ByteObjectHashMap.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/CharCollections.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/IntObjectMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/ByteCollections.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/collection/ShortObjectHashMap.java
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/CleanerJava6.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/CleanerJava9.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/EmptyArrays.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ThreadPoolExecutor.java

*

/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/logging/package-info.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/ResourceLeak.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/Recycler.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/package-info.java

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/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/ResourceLeakDetector.java

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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java

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/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java

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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ConcurrentSet.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/Version.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/ProgressivePromise.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/DefaultFutureListeners.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/TypeParameterMatcher.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/ReferenceCounted.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/ReadOnlyIterator.java
*
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/ReferenceCountUtil.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/GenericFutureListener.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/FutureListener.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/ImmediateEventExecutor.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/PlatformDependent0.java
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java

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/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
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/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
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 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/queues/MpSCLinkedQueue.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
 *
 /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/queues/MpSCUnboundedXaddArrayQueue.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/queues/MpSCChunkedArrayQueue.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpSCGrowableAtomicArrayQueue.java
 *
 /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
 jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCUnboundedArrayQueue.java
 * /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
*
/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseSpscLinkedArrayQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/ByteProcessorUtils.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/io/netty/util/internal/ResourcesUtil.java

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io.netty.util.internal.Hidden\$NettyBlockHoundIntegration

Found in path(s):

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/internal/DefaultPriorityQueue.java

*

/opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/internal/LongCounter.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/internal/PriorityQueueNode.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/DomainMappingBuilder.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/HashingStrategy.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/AsyncMapping.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java

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* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/internal/MathUtil.java

* /opt/cola/permits/1820904486_1697192360.8623555/0/netty-common-4-1-100-final-sources-

jar/io/netty/util/ByteProcessor.java

1.217 netty-transport 4.1.100.Final

1.217.1 Available under license :

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Manifest-Version: 1.0

Implementation-Title: Netty/Transport

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.transport
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>
Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.100.Final
Built-By: norman
Bnd-LastModified: 1696948198155
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: <https://netty.io/>
Bundle-Vendor: The Netty Project
Import-Package: io.netty.bootstrap,io.netty.buffer;version="[4.1,5)",io.netty.channel,io.netty.channel.nio,io.netty.channel.oio,io.netty.channel.socket,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-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Export-Package: io.netty.bootstrap;uses:="io.netty.channel,io.netty.resolver,io.netty.util";version="4.1.100",io.netty.channel;uses:="io.netty.bootstrap,io.netty.buffer,io.netty.util,io.netty.util.concurrent";version="4.1.100",io.netty.channel.embedded;uses:="io.netty.channel";version="4.1.100",io.netty.channel.group;uses:="io.netty.channel,io.netty.util.concurrent";version="4.1.100",io.netty.channel.internal;version="4.1.100",io.netty.channel.local;uses:="io.netty.channel";version="4.1.100",io.netty.channel.nio;uses:="io.netty.buffer,io.netty.channel,io.netty.util,io.netty.util.concurrent";version="4.1.100",io.netty.channel.oio;uses:="io.netty.buffer,io.netty.channel";version="4.1.100",io.netty.channel.pool;uses:="io.netty.bootstrap,io.netty.channel,io.netty.util.concurrent";version="4.1.100",io.netty.channel.socket;uses:="io.netty.buffer,io.netty.channel,io.netty.util";version="4.1.100",io.netty.channel.socket.nio;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.nio,io.netty.channel.socket";version="4.1.100",io.netty.channel.socket.oio;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.oio,io.netty.channel.socket";version="4.1.100"
Bundle-Name: Netty/Transport
Bundle-Version: 4.1.100.Final
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_382
Implementation-URL: <https://netty.io/netty-transport/>

Found in path(s):

* /opt/cola/permits/1820904472_1697534654.900729/0/netty-transport-4-1-100-final-jar/META-

INF/MANIFEST.MF

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Found in path(s):

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* /opt/cola/permits/1820904472_1697534654.900729/0/netty-transport-4-1-100-final-jar/META-INF/maven/io.netty/netty-transport/pom.xml
```

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* /opt/cola/permits/1820904472_1697534654.900729/0/netty-transport-4-1-100-final-jar/META-INF/native-image/io.netty/netty-transport/native-image.properties
```

1.218 netty-handler 4.1.100.Final

1.218.1 Available under license :

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Found in path(s):

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io.netty.handler.ssl/SslHandshakeCompletionEvent.java

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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/flow/FlowControlHandler.java

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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/BouncyCastlePemReader.java

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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

*

/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ClientAuth.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java

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jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/logging/ByteBufFormat.java

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Found in path(s):

```
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/GroupsConverter.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/BouncyCastle.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/AsyncRunnable.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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Found in path(s):

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java

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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

*

/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/Conscrypt.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java

*

/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java

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```
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-  
jar/io/netty/handler/ssl/StacklessSSLHandshakeException.java  
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-  
jar/io/netty/handler/ssl/EnhancingX509ExtendedTrustManager.java  
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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-  
jar/io/netty/handler/pcap/EthernetPacket.java  
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-  
jar/io/netty/handler/pcap/PcapWriter.java  
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-  
jar/io/netty/handler/pcap/PcapWriteHandler.java
```

*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/pcap/IPPacket.java
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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/logging/package-info.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-

```
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java

*

/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslContext.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/PemReader.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslProvider.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java

*

/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
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/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-

jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
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/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
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jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

*

/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/flush/package-info.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/PemEncoded.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/PemValue.java

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*

/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/flow/package-info.java

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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java

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jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
*

/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java

* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
*
/opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1824197368_1697526507.6772025/0/netty-handler-4-1-100-final-sources-

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* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_util.h
* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
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/opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/Limits.java
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* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_util.c
* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
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* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_errors.h

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* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/Socket.java
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/opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
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* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/Buffer.java
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* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/IovArray.java

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* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-jar/netty_unix_jni.h

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sources-jar/netty_unix.c
* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-
sources-jar/netty_unix.h
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sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java
* /opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-
sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java
*
/opt/cola/permits/1824197187_1697526505.2585757/0/netty-transport-native-unix-common-4-1-100-final-sources-
jar/io/netty/channel/unix/RawUnixChannelOption.java
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1.220 netty-codec-http 4.1.100.Final

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INF/native-image/io.netty/netty-codec-http/native-image.properties
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INF/maven/io.netty/netty-codec-http/pom.xml
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*/
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*

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/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java

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* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.java
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* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
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* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
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- * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
- *
- /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
- * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
- * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
- * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
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- * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
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- * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
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- * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
- * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java

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* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpContentDecompressor.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/LastHttpContent.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpObjectEncoder.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java

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/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpRequestEncoder.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/FileUpload.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.java

*

/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/DefaultCookie.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/Attribute.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java

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/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java

* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpServerCodec.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/RtspMethods.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpRequest.java
 *
 /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpObjectDecoder.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpClientCodec.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
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 /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/package-info.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpMethod.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/RtspVersions.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java
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 /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpContentDecoder.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HTTPHeaderDateFormat.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-

jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/rtsp/RtspHeaders.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/HttpContentCompressor.java
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 /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/package-info.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/multipart/HttpData.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
 *
 /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java
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 jar/io/netty/handler/codec/http/HttpResponseStatus.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
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 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
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 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/CookieDecoder.java
 * /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
 jar/io/netty/handler/codec/http/HttpMessage.java

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/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/package-info.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpObject.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/package-info.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
*
/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/QueryStringDecoder.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
*
/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/DefaultHttpContent.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpContent.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java
*
/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java

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* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
jar/io/netty/handler/codec/spdy/SpdySession.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
jar/io/netty/handler/codec/http/HttpConstants.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpObject.java
* /opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
jar/io/netty/handler/codec/http/HttpHeaders.java
*
/opt/cola/permits/1824197347_1697526480.4248974/0/netty-codec-http-4-1-100-final-sources-
jar/io/netty/handler/codec/http/HttpVersion.java
```

1.221 netty-handler-proxy 4.1.100.Final

1.221.1 Available under license :

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```
* /opt/cola/permits/1824197326_1697526531.3224494/0/netty-handler-proxy-4-1-100-final-sources-jar/META-
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* /opt/cola/permits/1824197326_1697526531.3224494/0/netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/cola/permits/1824197326_1697526531.3224494/0/netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
*
/opt/cola/permits/1824197326_1697526531.3224494/0/netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/package-info.java
* /opt/cola/permits/1824197326_1697526531.3224494/0/netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/cola/permits/1824197326_1697526531.3224494/0/netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/1824197326_1697526531.3224494/0/netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/cola/permits/1824197326_1697526531.3224494/0/netty-handler-proxy-4-1-100-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java

1.222 netty-codec-socks 4.1.100.Final

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- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java
- *
- /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/package-info.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
- *
- /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
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- /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
- * /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java

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/opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java

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/opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java
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* /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
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/opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
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* /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
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* /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
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* /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
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* /opt/cola/permits/1824197353_1697526488.7772381/0/netty-codec-socks-4-1-100-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java

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

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Upstream-Name: liblz4

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

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

Files: *

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1.226 guice 2.14.2

1.226.1 Available under license :

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1.227 jetty 11.0.18

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1.228 micronaut-kubernetes-discovery-client 4.0.0

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* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-jar/io/micronaut/kubernetes/configuration/KubernetesConfigMapWatcherCondition.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-jar/io/micronaut/kubernetes/discovery/informer/InstanceProviderInformerNamespaceResolver.java
*
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-jar/io/micronaut/kubernetes/discovery/informer/IndexerCompositeFactory.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-jar/io/micronaut/kubernetes/discovery/informer/IndexerComposite.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-jar/io/micronaut/kubernetes/configuration/ConfigMapLabelSupplier.java

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* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-jar/io/micronaut/kubernetes/KubernetesConfiguration.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-jar/io/micronaut/kubernetes/util/KubernetesUtils.java
*

```

/opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/KubernetesServiceConfiguration.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/provider/AbstractV1ServiceProvider.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/provider/KubernetesServiceInstanceServiceProvider.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/provider/KubernetesServiceInstanceEndpointProvider.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/provider/AbstractV1EndpointsProvider.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/configuration/KubernetesConfigMapWatcher.java
*
/opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/health/KubernetesHealthIndicator.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/configuration/KubernetesConfigurationClient.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/provider/KubernetesServiceInstanceEndpointInformerProvider.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/KubernetesServiceInstanceList.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/KubernetesServiceInstanceProvider.java
*
/opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/provider/KubernetesServiceInstanceServiceInformerProvider.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/KubernetesDiscoveryClient.java
* /opt/cola/permits/1843233524_1699484997.2812462/0/micronaut-kubernetes-discovery-client-4-0-0-sources-
jar/io/micronaut/kubernetes/discovery/AbstractKubernetesServiceInstanceProvider.java

```

1.229 micronaut-kubernetes-client-reactor

4.0.0

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* /opt/cola/permits/1843233561_1699485002.196053/0/micronaut-kubernetes-client-reactor-4-0-0-sources-jar/io/micronaut/kubernetes/client/reactor/AsyncCallbackSink.java

1.230 hazelcast-jet-kafka 5.2.2

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1.231 kubernetes-server-mock 6.5.0

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- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/OkHttpClientLogging.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/DefaultPodNameResolver.java
- *
- /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/ModelMapper.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/PodNameResolver.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/DiscoveryFactory.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/graalvm/KubernetesClientFeature.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/ApiClientFactory.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/NamespaceResolver.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/DefaultNamespaceResolver.java
- *
- /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/ApiClientConfiguration.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/Apis.java
- * /opt/cola/permits/1843233553_1699484999.6623178/0/micronaut-kubernetes-client-4-0-0-sources-jar/io/micronaut/kubernetes/client/ApisAutomaticFeatureMetadata.java

1.233 micronaut-kubernetes-informer 4.0.0

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- * /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/DefaultSharedIndexInformerFactory.java
- * /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/package-info.java

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- * /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/resolvers/InformerNamespaceResolver.java
- *

- /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/resolvers/DefaultInformerLabelSelectorResolver.java
- * /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/SharedIndexInformerFactory.java
- * /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/resolvers/DefaultInformerApiGroupResolver.java
- * /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/Informer.java
- * /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/EmptyLabelSupplier.java
- * /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-jar/io/micronaut/kubernetes/client/informer/resolvers/DefaultInformerNamespaceResolver.java

```

*
/opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-
jar/io/micronaut/kubernetes/client/informer/InformerFactoryLifecycleListener.java
* /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-
jar/io/micronaut/kubernetes/client/informer/resolvers/InformerApiGroupResolver.java
* /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-
jar/io/micronaut/kubernetes/client/informer/ResourceEventHandlerBeanListener.java
* /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-
jar/io/micronaut/kubernetes/client/informer/InformerAnnotationUtils.java
* /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-
jar/io/micronaut/kubernetes/client/informer/resolvers/InformerLabelSelectorResolver.java
*
/opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-
jar/io/micronaut/kubernetes/client/informer/EmptyNamespacesSupplier.java
* /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-
jar/io/micronaut/kubernetes/client/informer/InformerConfiguration.java
* /opt/cola/permits/1843233545_1699484994.659362/0/micronaut-kubernetes-informer-4-0-0-sources-
jar/io/micronaut/kubernetes/client/informer/resolvers/InformerResourcePluralResolver.java

```

1.234 servicecatalog-model 6.5.0

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```

* /opt/cola/permits/1843233498_1699485016.3737166/0/servicecatalog-model-6-5-0-sources-
jar/io/fabric8/servicecatalog/api/model/Constants.java

```

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Found in path(s):

* /opt/cola/permits/1843233498_1699485016.3737166/0/servicecatalog-model-6-5-0-sources-jar/META-INF/maven/io.fabric8/servicecatalog-model/pom.xml

1.235 servicecatalog-client 6.5.0

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* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-jar/META-INF/maven/io.fabric8/servicecatalog-client/pom.xml

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Found in path(s):

```
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/NamespacedServiceCatalogClient.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/internal/ClusterServiceClassOperationsImpl.java
*
/opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/dsl/ServiceBindingResource.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/internal/ServiceBindingOperationsImpl.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/dsl/ClusterServiceClassResource.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/ServiceCatalogClient.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/dsl/ServiceInstanceResource.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/internal/ServiceInstanceOperationsImpl.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/internal/ClusterServiceBrokerOperationsImpl.java
*
/opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/internal/ClusterServicePlanOperationsImpl.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/dsl/ClusterServiceBrokerResource.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/GenericServiceCatalogClient.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/DefaultServiceCatalogClient.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
```



```

jar/io/fabric8/servicecatalog/client/util/ApiVersionUtil.java
* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/dsl/ClusterServicePlanResource.java
*
/opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-
jar/io/fabric8/servicecatalog/client/ServiceCatalogExtensionAdapter.java
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io.fabric8.servicecatalog.client.ServiceCatalogExtensionAdapter

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* /opt/cola/permits/1843233514_1699485010.1931226/0/servicecatalog-client-6-5-0-sources-jar/META-
INF/services/io.fabric8.kubernetes.client.extension.ExtensionAdapter

```

1.236 jetty-security 11.0.18

1.236.1 Available under license :

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- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
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- * org.ow2.asm:asm

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- * org.apache.taglibs:taglibs-standard-impl

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- * org.apache.tomcat:tomcat-api
- * org.apache.tomcat:tomcat-util-scan
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