**String Methods**

**Task -1**

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**1. Basic Methods**

* **length()**

Returns the number of characters in the string.

String str = "Hello";

System.out.println(str.length()); // Output: 5

* **charAt(int index)**

Returns the character at a specific index.

String str = "Hello";

System.out.println(str.charAt(1)); // Output: e

* **hashCode()**

Returns the hash code of the string.

String str = "Hello";

System.out.println(str.hashCode());

**2. Substring Extraction**

* **substring(int beginIndex)**

Extracts substring from given index till end.

String str = "Hello";

System.out.println(str.substring(2)); // Output: llo

* **substring(int beginIndex, int endIndex)**

Extracts substring from beginIndex to endIndex - 1.

String str = "Hello";

System.out.println(str.substring(1, 4)); // Output: ell

**3. Case Conversion**

* **toUpperCase()**

Converts to uppercase.

String str = "hello";

System.out.println(str.toUpperCase()); // Output: HELLO

* **toLowerCase()**

Converts to lowercase.

String str = "HELLO";

System.out.println(str.toLowerCase()); // Output: hello

**4. Comparison Methods**

* **equals(String anotherString)**

Compares two strings for equality.

System.out.println("Hello".equals("hello")); // Output: false

* **equalsIgnoreCase(String anotherString)**

Compares two strings, ignoring case.

System.out.println("Hello".equalsIgnoreCase("hello")); // Output: true

* **compareTo(String anotherString)**

Compares two strings lexicographically.

System.out.println("Apple".compareTo("Banana")); // Output: -1

* **compareToIgnoreCase(String anotherString)**

Compares lexicographically, ignoring case.

System.out.println("apple".compareToIgnoreCase("Apple")); // Output: 0

**5. Searching Methods**

* **contains(CharSequence s)**

Checks if string contains a sequence.

System.out.println("Hello World".contains("World")); // Output: true

* **startsWith(String prefix)**

Checks if string starts with given prefix.

System.out.println("Hello".startsWith("He")); // Output: true

* **endsWith(String suffix)**

Checks if string ends with given suffix.

System.out.println("Hello".endsWith("lo")); // Output: true

* **indexOf(String str)**

Returns the first occurrence index.

System.out.println("Hello World".indexOf("o")); // Output: 4

* **indexOf(String str, int fromIndex)**

Returns first occurrence after fromIndex.

System.out.println("Hello World".indexOf("o", 5)); // Output: 7

* **lastIndexOf(String str)**

Returns the last occurrence index.

System.out.println("Hello World Hello".lastIndexOf("Hello")); // Output: 12

**6. Whitespace Handling**

* **trim()**

Removes leading and trailing spaces.

System.out.println(" Hello ".trim()); // Output: "Hello"

* **strip() ( 11)**

More Unicode-aware trimming.

System.out.println(" Hello ".strip()); // Output: "Hello"

* **stripLeading() ( 11)**

Removes only leading spaces.

System.out.println(" Hello ".stripLeading()); // Output: "Hello "

* **stripTrailing() ( 11)**

Removes only trailing spaces.

System.out.println(" Hello ".stripTrailing()); // Output: " Hello"

**7. Replacement Methods**

* **replace(char oldChar, char newChar)**

Replaces all occurrences of a character.

System.out.println("Hello".replace('l', 'p')); // Output: Heppo

* **replace(CharSequence target, CharSequence replacement)**

Replaces all occurrences of a substring.

System.out.println(" is fun".replace("", "Python")); // Output: Python is fun

* **replaceFirst(String regex, String replacement)**

Replaces first occurrence of regex

System.out.println("apple apple apple".replaceFirst("apple", "orange")); // Output: orange apple apple

* **replaceAll(String regex, String replacement)**

Replaces all occurrences of regex.

System.out.println("apple apple apple".replaceAll("apple", "orange")); // Output: orange orange orange

**8. Splitting and Joining**

* **split(String regex)**

Splits a string based on regex.

String str = "apple,banana,grape";

String[] fruits = str.split(",");

System.out.println(Arrays.toString(fruits)); // Output: [apple, banana, grape]

* **join(CharSequence delimiter, CharSequence... elements)**

Joins elements with a delimiter.

System.out.println(String.join("-", "2025", "03", "25")); // Output: 2025-03-25

**9. Checking Empty or Blank**

* **isEmpty()**

Returns true if string is empty.

System.out.println("".isEmpty()); // Output: true

* **isBlank() ( 11)**

Returns true if only whitespace or empty.

System.out.println(" ".isBlank()); // Output: true

**10. Formatting & Other Methods**

* **repeat(int count) ( 11)**

Repeats the string count times.

System.out.println("Hello ".repeat(3)); // Output: Hello Hello Hello

* **formatted(Object... args) ( 15)**

Formats a string using placeholders.

System.out.println("Hello, %s!".formatted("Sai")); // Output: Hello, Sai!

* **toCharArray()**

Converts the string to a character array.

char[] chars = "Hello".toCharArray();

System.out.println(Arrays.toString(chars)); // Output: [H, e, l, l, o]

* **matches(String regex)**

Returns true if matches regex.

System.out.println("12345".matches("\\d+")); // Output: true

**11. Rarely Used Methods**

* **codePointAt(int index)**

Returns Unicode code point at index.

System.out.println("A".codePointAt(0)); // Output: 65

* **codePointBefore(int index)**

Returns Unicode code point before index.

System.out.println("AB".codePointBefore(1)); // Output: 65

* **codePointCount(int beginIndex, int endIndex)**

Returns count of Unicode code points.

System.out.println("ABCD".codePointCount(0, 4)); // Output: 4

**All methods from java oracle document**

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| --- | --- |
| **char** | [charAt](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#charAt-int-)(int index)  Returns the char value at the specified index. |
| **int** | [codePointAt](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#codePointAt-int-)(int index)  Returns the character (Unicode code point) at the specified index. |
| **int** | [codePointBefore](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#codePointBefore-int-)(int index)  Returns the character (Unicode code point) before the specified index. |
| **int** | [codePointCount](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#codePointCount-int-int-)(int beginIndex, int endIndex)  Returns the number of Unicode code points in the specified text range of this String. |
| **int** | [compareTo](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#compareTo-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) anotherString)  Compares two strings lexicographically. |
| **int** | [compareToIgnoreCase](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#compareToIgnoreCase-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) str)  Compares two strings lexicographically, ignoring case differences. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [concat](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#concat-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) str)  Concatenates the specified string to the end of this string. |
| **boolean** | [contains](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#contains-java.lang.CharSequence-)([CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang) s)  Returns true if and only if this string contains the specified sequence of char values. |
| **boolean** | [contentEquals](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#contentEquals-java.lang.CharSequence-)([CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang) cs)  Compares this string to the specified CharSequence. |
| **boolean** | [contentEquals](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#contentEquals-java.lang.StringBuffer-)([StringBuffer](https://docs.oracle.com/javase/8/docs/api/java/lang/StringBuffer.html" \o "class in java.lang) sb)  Compares this string to the specified StringBuffer. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [copyValueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#copyValueOf-char:A-)(char[] data)  Equivalent to [valueOf(char[])](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html" \l "valueOf-char:A-). |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [copyValueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#copyValueOf-char:A-int-int-)(char[] data, int offset, int count)  Equivalent to [valueOf(char[], int, int)](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html" \l "valueOf-char:A-int-int-). |
| **boolean** | [endsWith](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#endsWith-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) suffix) - Tests if this string ends with the specified suffix. |
| **boolean** | [equals](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#equals-java.lang.Object-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html) anObject)  Compares this string to the specified object. |
| **boolean** | [equalsIgnoreCase](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#equalsIgnoreCase-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) anotherString)  Compares this String to another String, ignoring case considerations. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [format](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#format-java.util.Locale-java.lang.String-java.lang.Object...-)([Locale](https://docs.oracle.com/javase/8/docs/api/java/util/Locale.html) l, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) format, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html)... args)  Returns a formatted string using the specified locale, format string, and arguments. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [format](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#format-java.lang.String-java.lang.Object...-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) format, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html)... args)  Returns a formatted string using the specified format string and arguments. |
| **byte[]** | [getBytes](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#getBytes--)()  Encodes this String into a sequence of bytes using the platform's default charset, storing the result into a new byte array. |
| **byte[]** | [getBytes](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#getBytes-java.nio.charset.Charset-)([Charset](https://docs.oracle.com/javase/8/docs/api/java/nio/charset/Charset.html) charset)  Encodes this String into a sequence of bytes using the given [charset](https://docs.oracle.com/javase/8/docs/api/java/nio/charset/Charset.html), storing the result into a new byte array. |
| **void** | [getBytes](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#getBytes-int-int-byte:A-int-)(int srcBegin, int srcEnd, byte[] dst, int dstBegin)  Deprecated.  This method does not properly convert characters into bytes. As of JDK 1.1, the preferred way to do this is via the [getBytes()](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html" \l "getBytes--) method, which uses the platform's default charset. |
| **byte[]** | [getBytes](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#getBytes-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) charsetName)  Encodes this String into a sequence of bytes using the named charset, storing the result into a new byte array. |
| **void** | [getChars](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#getChars-int-int-char:A-int-)(int srcBegin, int srcEnd, char[] dst, int dstBegin)  Copies characters from this string into the destination character array. |
| **int** | [hashCode](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#hashCode--)()  Returns a hash code for this string. |
| **int** | [indexOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#indexOf-int-)(int ch)  Returns the index within this string of the first occurrence of the specified character. |
| **int** | [indexOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#indexOf-int-int-)(int ch, int fromIndex)  Returns the index within this string of the first occurrence of the specified character, starting the search at the specified index. |
| **int** | [indexOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#indexOf-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) str)  Returns the index within this string of the first occurrence of the specified substring. |
| **int** | [indexOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#indexOf-java.lang.String-int-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) str, int fromIndex)  Returns the index within this string of the first occurrence of the specified substring, starting at the specified index. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [intern](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#intern--)()  Returns a canonical representation for the string object. |
| **boolean** | [isEmpty](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#isEmpty--)()  Returns true if, and only if, [length()](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#length--) is 0. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [join](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#join-java.lang.CharSequence-java.lang.CharSequence...-)([CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang) delimiter, [CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang)... elements)  Returns a new String composed of copies of the CharSequence elements joined together with a copy of the specified delimiter. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [join](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#join-java.lang.CharSequence-java.lang.Iterable-)([CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang) delimiter, [Iterable](https://docs.oracle.com/javase/8/docs/api/java/lang/Iterable.html" \o "interface in java.lang)<? extends [CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang)> elements)  Returns a new String composed of copies of the CharSequence elements joined together with a copy of the specified delimiter. |
| **int** | [lastIndexOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#lastIndexOf-int-)(int ch)  Returns the index within this string of the last occurrence of the specified character. |
| **int** | [lastIndexOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#lastIndexOf-int-int-)(int ch, int fromIndex)  Returns the index within this string of the last occurrence of the specified character, searching backward starting at the specified index. |
| **int** | [lastIndexOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#lastIndexOf-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) str)  Returns the index within this string of the last occurrence of the specified substring. |
| **int** | [lastIndexOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#lastIndexOf-java.lang.String-int-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) str, int fromIndex)  Returns the index within this string of the last occurrence of the specified substring, searching backward starting at the specified index. |
| **int** | [length](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#length--)()  Returns the length of this string. |
| **boolean** | [matches](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#matches-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) regex)  Tells whether or not this string matches the given [regular expression](https://docs.oracle.com/javase/8/docs/api/java/util/regex/Pattern.html#sum). |
| **int** | [offsetByCodePoints](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#offsetByCodePoints-int-int-)(int index, int codePointOffset)  Returns the index within this String that is offset from the given index by codePointOffset code points. |
| **boolean** | [regionMatches](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#regionMatches-boolean-int-java.lang.String-int-int-)(boolean ignoreCase, int toffset, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) other, int ooffset, int len)  Tests if two string regions are equal. |
| **boolean** | [regionMatches](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#regionMatches-int-java.lang.String-int-int-)(int toffset, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) other, int ooffset, int len)  Tests if two string regions are equal. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [replace](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#replace-char-char-)(char oldChar, char newChar)  Returns a string resulting from replacing all occurrences of oldChar in this string with newChar. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [replace](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#replace-java.lang.CharSequence-java.lang.CharSequence-)([CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang) target, [CharSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html" \o "interface in java.lang) replacement)  Replaces each substring of this string that matches the literal target sequence with the specified literal replacement sequence. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [replaceAll](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#replaceAll-java.lang.String-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) regex, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) replacement)  Replaces each substring of this string that matches the given [regular expression](https://docs.oracle.com/javase/8/docs/api/java/util/regex/Pattern.html#sum) with the given replacement. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [replaceFirst](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#replaceFirst-java.lang.String-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) regex, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) replacement)  Replaces the first substring of this string that matches the given [regular expression](https://docs.oracle.com/javase/8/docs/api/java/util/regex/Pattern.html#sum) with the given replacement. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html)**[]** | [split](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#split-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) regex)  Splits this string around matches of the given [regular expression](https://docs.oracle.com/javase/8/docs/api/java/util/regex/Pattern.html#sum). |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html)**[]** | [split](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#split-java.lang.String-int-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) regex, int limit)  Splits this string around matches of the given [regular expression](https://docs.oracle.com/javase/8/docs/api/java/util/regex/Pattern.html#sum). |
| **boolean** | [startsWith](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#startsWith-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) prefix)  Tests if this string starts with the specified prefix. |
| **boolean** | [startsWith](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#startsWith-java.lang.String-int-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) prefix, int toffset)  Tests if the substring of this string beginning at the specified index starts with the specified prefix. |
| [**CharSequence**](https://docs.oracle.com/javase/8/docs/api/java/lang/CharSequence.html) | [subSequence](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#subSequence-int-int-)(int beginIndex, int endIndex)  Returns a character sequence that is a subsequence of this sequence. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [substring](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#substring-int-)(int beginIndex)  Returns a string that is a substring of this string. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [substring](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#substring-int-int-)(int beginIndex, int endIndex)  Returns a string that is a substring of this string. |
| **char[]** | [toCharArray](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toCharArray--)()  Converts this string to a new character array. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [toLowerCase](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toLowerCase--)()  Converts all of the characters in this String to lower case using the rules of the default locale. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [toLowerCase](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toLowerCase-java.util.Locale-)([Locale](https://docs.oracle.com/javase/8/docs/api/java/util/Locale.html) locale)  Converts all of the characters in this String to lower case using the rules of the given Locale. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [toString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toString--)()  This object (which is already a string!) is itself returned. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [toUpperCase](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toUpperCase--)()  Converts all of the characters in this String to upper case using the rules of the default locale. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [toUpperCase](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toUpperCase-java.util.Locale-)([Locale](https://docs.oracle.com/javase/8/docs/api/java/util/Locale.html) locale)  Converts all of the characters in this String to upper case using the rules of the given Locale. |
| [**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [trim](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#trim--)()  Returns a string whose value is this string, with any leading and trailing whitespace removed. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-boolean-)(boolean b)  Returns the string representation of the boolean argument. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-char-)(char c)  Returns the string representation of the char argument. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-char:A-)(char[] data)  Returns the string representation of the char array argument. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-char:A-int-int-)(char[] data, int offset, int count)  Returns the string representation of a specific subarray of the char array argument. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-double-)(double d)  Returns the string representation of the double argument. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-float-)(float f)  Returns the string representation of the float argument. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-int-)(int i)  Returns the string representation of the int argument. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-long-)(long l)  Returns the string representation of the long argument. |
| **static**[**String**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [valueOf](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-java.lang.Object-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html) obj)  Returns the string representation of the Object argument. |