Να κατασκευαστεί η κλάση MyString. Η κλάση συμπεριφέρεται παρόμοια με την κλάση String. Η υλοποίησή της δεν θα πρέπει να βασισθεί στις κλάσεις String, StringBuffer ή StringBuilder. Για αποθηκευτικό χώρο να χρησιμοποιηθεί ένα array από char.

Constructors

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| [**MyString**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#String-char:A-)(char[] value)Allocates a new MyString so that it represents the sequence of characters currently contained in the character array argument. |
| [**MyString**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#String-java.lang.String-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** original)Initializes a newly created MyString object so that it represents the same sequence of characters as the argument; in other words, the newly created MyString is a copy of the argument MyString. |

Function Members

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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 | [**compareTo**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#compareTo-java.lang.String-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** anotherMyString)Compares two MyStrings lexicographically. |
| int | [**compareToIgnoreCase**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#compareToIgnoreCase-java.lang.String-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** str)Compares two MyStrings lexicographically, ignoring case differences. |
| [**MyString**](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-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** str)Concatenates the specified MyString to the end of this MyString. |
| static **[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** | [**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%22%20%5Cl%20%22valueOf-char%3AA-)**. |
| static **[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** | [**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%22%20%5Cl%20%22valueOf-char%3AA-int-int-)**. |
| boolean | [**endsWith**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#endsWith-java.lang.String-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** suffix)Tests if this MyString 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 MyString to the specified object. |
| boolean | [**equalsIgnoreCase**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#equalsIgnoreCase-java.lang.String-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** anotherMyString)Compares this MyString to another MyString, ignoring case considerations. |
| 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 MyString 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 MyString. |
| int | [**indexOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#indexOf-int-)(int ch)Returns the index within this MyString 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 MyString 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-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** str)Returns the index within this MyString of the first occurrence of the specified subMyString. |
| int | [**indexOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#indexOf-java.lang.String-int-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** str, int fromIndex)Returns the index within this MyString of the first occurrence of the specified subMyString, starting at the specified index. |
| 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. |
| int | [**lastIndexOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#lastIndexOf-int-)(int ch)Returns the index within this MyString 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 MyString 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-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** str)Returns the index within this MyString of the last occurrence of the specified subMyString. |
| int | [**lastIndexOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#lastIndexOf-java.lang.String-int-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** str, int fromIndex)Returns the index within this MyString of the last occurrence of the specified subMyString, 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 MyString. |
| [**MyString**](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 MyString resulting from replacing all occurrences of oldChar in this MyString with newChar. |
| boolean | [**startsWith**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#startsWith-java.lang.String-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** prefix)Tests if this MyString starts with the specified prefix. |
| boolean | [**startsWith**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#startsWith-java.lang.String-int-)(**[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** prefix, int toffset)Tests if the subMyString of this MyString beginning at the specified index starts with the specified prefix. |
| [**MyString**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [**subMyString**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#substring-int-)(int beginIndex)Returns a MyString that is a subMyString of this MyString. |
| [**MyString**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html) | [**subMyString**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#substring-int-int-)(int beginIndex, int endIndex)Returns a MyString that is a subMyString of this MyString. |
| char[] | [**toCharArray**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#toCharArray--)()Converts this MyString to a new character array. |
| [**MyString**](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 MyString to lower case using the rules of the default 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--)() |
| [**MyString**](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 MyString to upper case using the rules of the default locale. |
| [**MyString**](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 MyString whose value is this MyString, with any leading and trailing whitespace removed. |
| static **[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** | [**valueOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-boolean-)(boolean b)Returns the MyString representation of the boolean argument. |
| static **[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** | [**valueOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-char-)(char c)Returns the MyString representation of the char argument. |
| static **[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** | [**valueOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-char:A-)(char[] data)Returns the MyString representation of the char array argument. |
| static **[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** | [**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 MyString representation of a specific subarray of the char array argument. |
| static **[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** | [**valueOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-int-)(int i)Returns the MyString representation of the int argument. |
| static **[MyString](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html%22%20%5Co%20%22class%20in%20java.lang)** | [**valueOf**](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html#valueOf-long-)(long l)Returns the MyString representation of the long argument. |