The **java.lang.StringBuffer** class is a thread-safe, mutable sequence of characters. Following are the important points about StringBuffer −

* A string buffer is like a String, but can be modified.
* It contains some particular sequence of characters, but the length and content of the sequence can be changed through certain method calls.
* They are safe for use by multiple threads.
* Every string buffer has a capacity.

public final class StringBuffer extends Object implements Serializable, CharSequence

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| **Sr.No.** | **Constructor & Description** |
| 1 | **StringBuffer()**  This constructs a string buffer with no characters in it and an initial capacity of 16 characters. |
| 2 | **StringBuffer(CharSequence seq)**  This constructs a string buffer that contains the same characters as the specified CharSequence. |
| 3 | **StringBuffer(int capacity)**  This constructs a string buffer with no characters in it and the specified initial capacity. |
| 4 | **StringBuffer(String str)**  This constructs a string buffer initialized to the contents of the specified string. |

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| **Sr.No.** | **Method & Description** |
| 1 | [StringBuffer append(boolean b)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_boolean.htm)  This method appends the string representation of the boolean argument to the sequence |
| 2 | [StringBuffer append(char c)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_char.htm)  This method appends the string representation of the char argument to this sequence. |
| 3 | [StringBuffer append(char[] str)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_chararray.htm)  This method appends the string representation of the char array argument to this sequence. |
| 4 | [StringBuffer append(char[] str, int offset, int len)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_chararray_len.htm)  This method appends the string representation of a subarray of the char array argument to  this sequence. |
| 5 | [StringBuffer append(CharSequence s)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_sequence.htm)  This method appends the specified CharSequence to this sequence. |
| 6 | [StringBuffer append(CharSequence s, int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_subsequence.htm)  This method appends a subsequence of the specified CharSequence to this sequence. |
| 7 | [StringBuffer append(double d)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_double.htm)  This method appends the string representation of the double argument to this sequence. |
| 8 | [StringBuffer append(float f)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_float.htm)  This method appends the string representation of the float argument to this sequence. |
| 9 | [StringBuffer append(int i)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_int.htm)  This method appends the string representation of the int argument to this sequence. |
| 10 | [StringBuffer append(long lng)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_long.htm)  This method appends the string representation of the long argument to this sequence. |
| 11 | [StringBuffer append(Object obj)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_object.htm)  This method appends the string representation of the Object argument. |
| 12 | [StringBuffer append(String str)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_string.htm)  This method appends the specified string to this character sequence. |
| 13 | [StringBuffer append(StringBuffer sb)](https://www.tutorialspoint.com/java/lang/stringbuffer_append_stringbuffer.htm)  This method appends the specified StringBuffer to this sequence. |
| 14 | [StringBuffer appendCodePoint(int codePoint)](https://www.tutorialspoint.com/java/lang/stringbuffer_appendcodepoint.htm)  This method appends the string representation of the codePoint argument to this sequence. |
| 15 | [int capacity()](https://www.tutorialspoint.com/java/lang/stringbuffer_capacity.htm)  This method returns the current capacity. |
| 16 | [char charAt(int index)](https://www.tutorialspoint.com/java/lang/stringbuffer_charat.htm)  This method returns the char value in this sequence at the specified index. |
| 17 | [int codePointAt(int index)](https://www.tutorialspoint.com/java/lang/stringbuffer_codepointat.htm)  This method returns the character (Unicode code point) at the specified index |
| 18 | [int codePointBefore(int index)](https://www.tutorialspoint.com/java/lang/stringbuffer_codepointbefore.htm)  This method returns the character (Unicode code point) before the specified index |
| 19 | [int codePointCount(int beginIndex, int endIndex)](https://www.tutorialspoint.com/java/lang/stringbuffer_codepointcount.htm)  This method returns the number of Unicode code points in the specified text range of this sequence |
| 20 | [StringBuffer delete(int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuffer_delete.htm)  This method removes the characters in a substring of this sequence. |
| 21 | [StringBuffer deleteCharAt(int index)](https://www.tutorialspoint.com/java/lang/stringbuffer_deletecharat.htm)  This method removes the char at the specified position in this sequence |
| 22 | [void ensureCapacity(int minimumCapacity)](https://www.tutorialspoint.com/java/lang/stringbuffer_ensurecapacity.htm)  This method ensures that the capacity is at least equal to the specified minimum. |
| 23 | [void getChars(int srcBegin, int srcEnd, char[] dst, int dstBegin)](https://www.tutorialspoint.com/java/lang/stringbuffer_getchars.htm)  This method characters are copied from this sequence into the destination character array dst. |
| 24 | [int indexOf(String str)](https://www.tutorialspoint.com/java/lang/stringbuffer_indexof_str.htm)  This method returns the index within this string of the first occurrence of the specified substring. |
| 25 | [int indexOf(String str, int fromIndex)](https://www.tutorialspoint.com/java/lang/stringbuffer_indexof_str_index.htm)  This method returns the index within this string of the first occurrence of the specified substring,  starting at the specified index. |
| 26 | [StringBuffer insert(int offset, boolean b)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_boolean.htm)  This method inserts the string representation of the boolean argument into this sequence. |
| 27 | [StringBuffer insert(int offset, char c)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_char.htm)  This method inserts the string representation of the char argument into this sequence. |
| 28 | [StringBuffer insert(int offset, char[] str)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_chararray.htm)  This method inserts the string representation of the char array argument into this sequence. |
| 29 | [StringBuffer insert(int index, char[] str, int offset, int len)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_chararray_len.htm)  This method inserts the string representation of a subarray of the str array argument into this  sequence. |
| 30 | [StringBuffer insert(int dstOffset, CharSequence s)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_sequence.htm)  This method inserts the specified CharSequence into this sequence. |
| 31 | [StringBuffer insert(int dstOffset, CharSequence s, int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_subsequence.htm)  This method inserts a subsequence of the specified CharSequence into this sequence. |
| 32 | [StringBuffer insert(int offset, double d)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_double.htm)  This method inserts the string representation of the double argument into this sequence. |
| 33 | [StringBuffer insert(int offset, float f)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_float.htm)  This method inserts the string representation of the float argument into this sequence. |
| 34 | [StringBuffer insert(int offset, int i](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_int.htm)  This method inserts the string representation of the second int argument into this sequence. |
| 35 | [StringBuffer insert(int offset, long l)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_long.htm)  This method inserts the string representation of the long argument into this sequence. |
| 36 | [StringBuffer insert(int offset, Object obj)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_object.htm)  This method inserts the string representation of the Object argument into this character sequence. |
| 37 | [StringBuffer insert(int offset, String str)](https://www.tutorialspoint.com/java/lang/stringbuffer_insert_string.htm)  This method inserts the string into this character sequence. |
| 38 | [int lastIndexOf(String str)](https://www.tutorialspoint.com/java/lang/stringbuffer_lastindexof.htm)  This method returns the index within this string of the rightmost occurrence of the specified substring. |
| 39 | [int lastIndexOf(String str, int fromIndex)](https://www.tutorialspoint.com/java/lang/stringbuffer_lastindexof_index.htm)  This method returns the index within this string of the last occurrence of the specified substring. |
| 40 | [int length()](https://www.tutorialspoint.com/java/lang/stringbuffer_length.htm)  This method returns the length (character count). |
| 41 | [int offsetByCodePoints(int index, int codePointOffset)](https://www.tutorialspoint.com/java/lang/stringbuffer_offsetbycodepoints.htm)  This method returns the index within this sequence that is offset from the given index by  codePointOffset code points. |
| 42 | [StringBuffer replace(int start, int end, String str)](https://www.tutorialspoint.com/java/lang/stringbuffer_replace.htm)  This method replaces the characters in a substring of this sequence with characters in the  specified String. |
| 43 | [StringBuffer reverse()](https://www.tutorialspoint.com/java/lang/stringbuffer_reverse.htm)  This method causes this character sequence to be replaced by the reverse of the sequence. |
| 44 | [void setCharAt(int index, char ch)](https://www.tutorialspoint.com/java/lang/stringbuffer_setcharat.htm)  The character at the specified index is set to ch. |
| 45 | [void setLength(int newLength)](https://www.tutorialspoint.com/java/lang/stringbuffer_setlength.htm)  This method sets the length of the character sequence. |
| 46 | [CharSequence subSequence(int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuffer_subsequence.htm)  This method returns a new character sequence that is a subsequence of this sequence. |
| 47 | [String substring(int start)](https://www.tutorialspoint.com/java/lang/stringbuffer_substring.htm)  This method returns a new String that contains a subsequence of characters currently contained  in this character sequence |
| 48 | [String substring(int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuffer_substring_end.htm)  This method returns a new String that contains a subsequence of characters currently contained  in this sequence. |
| 49 | [String toString()](https://www.tutorialspoint.com/java/lang/stringbuffer_tostring.htm)  This method returns a string representing the data in this sequence. |
| 50 | [void trimToSize()](https://www.tutorialspoint.com/java/lang/stringbuffer_trimtosize.htm)  This method attempts to reduce storage used for the character sequence. |