The **java.lang.StringBuilder** class is mutable sequence of characters. This provides an API compatible with StringBuffer, but with no guarantee of synchronization.

Following is the declaration for **java.lang.StringBuilder** class −

public final class StringBuilder extends Object

implements Serializable, CharSequence

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| **Sr.No.** | **Constructor & Description** |
| 1 | **StringBuilder()**  This constructs a string builder with no characters in it and an initial capacity of 16 characters. |
| 2 | **StringBuilder(CharSequence seq)**  This constructs a string builder that contains the same characters as the specified CharSequence. |
| 3 | **StringBuilder(int capacity)**  This constructs a string builder with no characters in it and an initial capacity specified by  the capacity argument. |
| 4 | **StringBuilder(String str)**  This constructs a string builder initialized to the contents of the specified string. |
| **Sr.No.** | **Method & Description** |
| 1 | [StringBuilder append(boolean b)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_boolean.htm)  This method appends the string representation of the boolean argument to the sequence. |
| 2 | [StringBuilder append(char c)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_char.htm)  This method appends the string representation of the char argument to this sequence. |
| 3 | [StringBuilder append(char[] str)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_chararray.htm)  This method appends the string representation of the char array argument to this sequence. |
| 4 | [StringBuilder append(char[] str, int offset, int len)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_chararray_len.htm)  This method appends the string representation of a subarray of the char array argument to  this sequence. |
| 5 | [StringBuilder append(CharSequence s)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_sequence.htm)  This method appends the specified character sequence to this Appendable. |
| 6 | [StringBuilder append(CharSequence s, int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_subsequence.htm)  This method appends a subsequence of the specified CharSequence to this sequence. |
| 7 | [StringBuilder append(double d)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_double.htm)  This method appends the string representation of the double argument to this sequence. |
| 8 | [StringBuilder append(float f)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_float.htm)  This method appends the string representation of the float argument to this sequence. |
| 9 | [StringBuilder append(int i)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_int.htm)  This method appends the string representation of the int argument to this sequence. |
| 10 | [StringBuilder append(long lng)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_long.htm)  This method appends the string representation of the long argument to this sequence. |
| 11 | [StringBuilder append(Object obj)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_object.htm)  This method appends the string representation of the Object argument. |
| 12 | [StringBuilder append(String str)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_string.htm)  This method appends the specified string to this character sequence. |
| 13 | [StringBuilder append(StringBuffer sb)](https://www.tutorialspoint.com/java/lang/stringbuilder_append_stringbuffer.htm)  This method appends the specified StringBuffer to this sequence. |
| 14 | [StringBuilder appendCodePoint(int codePoint)](https://www.tutorialspoint.com/java/lang/stringbuilder_appendcodepoint.htm)  This method appends the string representation of the codePoint argument to this sequence. |
| 15 | [int capacity()](https://www.tutorialspoint.com/java/lang/stringbuilder_capacity.htm)  This method returns the current capacity. |
| 16 | [char charAt(int index)](https://www.tutorialspoint.com/java/lang/stringbuilder_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/stringbuilder_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/stringbuilder_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/stringbuilder_codepointcount.htm)  This method returns the number of Unicode code points in the specified text range of this sequence. |
| 20 | [StringBuilder delete(int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuilder_delete.htm)  This method removes the characters in a substring of this sequence. |
| 21 | [StringBuilder deleteCharAt(int index)](https://www.tutorialspoint.com/java/lang/stringbuilder_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/stringbuilder_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/stringbuilder_getchars.htm)  Characters are copied from this sequence into the destination character array dst. |
| 24 | [int indexOf(String str)](https://www.tutorialspoint.com/java/lang/stringbuilder_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/stringbuilder_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 | [StringBuilder insert(int offset, boolean b)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_boolean.htm)  This method inserts the string representation of the boolean argument into this sequence. |
| 27 | [StringBuilder insert(int offset, char c)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_char.htm)  This method inserts the string representation of the char argument into this sequence. |
| 28 | [StringBuilder insert(int offset, char[] str)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_chararray.htm)  This method inserts the string representation of the char array argument into this sequence. |
| 29 | [StringBuilder insert(int index, char[] str, int offset, int len)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_chararray_len.htm)  This method inserts the string representation of a subarray of the str array argument into this  sequence. |
| 30 | [StringBuilder insert(int dstOffset, CharSequence s)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_sequence.htm)  This method inserts the specified CharSequence into this sequence. |
| 31 | [StringBuilder insert(int dstOffset, CharSequence s, int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_subsequence.htm)  This method inserts a subsequence of the specified CharSequence into this sequence. |
| 32 | [StringBuilder insert(int offset, double d)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_double.htm)  This method inserts the string representation of the double argument into this sequence. |
| 33 | [StringBuilder insert(int offset, float f)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_float.htm)  This method inserts the string representation of the float argument into this sequence. |
| 34 | [StringBuilder insert(int offset, int i)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_int.htm)  This method inserts the string representation of the second int argument into this sequence. |
| 35 | [StringBuilder insert(int offset, long l)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_long.htm)  This method inserts the string representation of the long argument into this sequence. |
| 36 | [StringBuilder insert(int offset, Object obj)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_object.htm)  This method inserts the string representation of the Object argument into this character sequence. |
| 37 | [StringBuilder insert(int offset, String str)](https://www.tutorialspoint.com/java/lang/stringbuilder_insert_string.htm)  This method inserts the string into this character sequence. |
| 38 | [int lastIndexOf(String str)](https://www.tutorialspoint.com/java/lang/stringbuilder_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/stringbuilder_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/stringbuilder_length.htm)  This method returns the length (character count). |
| 41 | [int offsetByCodePoints(int index, int codePointOffset)](https://www.tutorialspoint.com/java/lang/stringbuilder_offsetbycodepoints.htm)  This method returns the index within this sequence that is offset from the given index by  codePointOffset code points. |
| 42 | [StringBuilder replace(int start, int end, String str)](https://www.tutorialspoint.com/java/lang/stringbuilder_replace.htm)  This method replaces the characters in a substring of this sequence with characters in the  specified String. |
| 43 | [StringBuilder reverse()](https://www.tutorialspoint.com/java/lang/stringbuilder_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/stringbuilder_setcharat.htm)  Character at the specified index is set to ch. |
| 45 | [void setLength(int newLength)](https://www.tutorialspoint.com/java/lang/stringbuilder_setlength.htm)  This method sets the length of the character sequence. |
| 46 | [CharSequence subSequence(int start, int end)](https://www.tutorialspoint.com/java/lang/stringbuilder_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/stringbuilder_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/stringbuilder_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/stringbuilder_tostring.htm)  This method returns a string representing the data in this sequence. |
| 50 | [void trimToSize()](https://www.tutorialspoint.com/java/lang/stringbuilder_trimtosize.htm)  This method attempts to reduce storage used for the character sequence. |