

Mutable String

Therefore mutable strings are those strings whose content can be changed without creating a new object. StringBuffer and StringBuilder are mutable versions of String in java.

StringBuffer Constructors:

- StringBuffer(): This creates an empty StringBuffer with a default capacity of 16 characters.
- StringBuffer(int capacity): This creates an empty StringBuffer with a specified capacity.
- StringBuffer(CharSequence charseq): This creates a StringBuffer containing the same characters as in the specified character sequence.
- StringBuffer(String str): Creates a StringBuffer corresponding to specific string.

```
public class Demo{
    public static void main(String[] args) {
        StringBuffer st = new StringBuffer(); // Creating
    object of StringBuffer
        System.out.println(st.capacity());// Initial default
    capacity is 16
     }
}
```



In the above code StringBuffer object is created by default 16 memory is allocated.

Let's see how to append strings to StringBuffer.

```
public class Demo{

   public static void main(String[] args) {
        StringBuffer st = new StringBuffer();
        System.out.println(st.capacity());
        st.append("Java"); // Java is added to string Buffer
        st.append("JavaScript"); // JavaScript is added to

string Buffer
        System.out.println(st);
   }
}
```

Output:

16 JavaJavaScript

Let's see if you try to append the string more than the default capacity

```
public class Demo{

   public static void main(String[] args) {
        StringBuffer st = new StringBuffer();
        System.out.println(st.capacity());
        st.append("Java");
        st.append("JavaScript");
        System.out.println(st);
        st.append("James Gosling");
        System.out.println(st.capacity()); //once the capacity
is full size will be increase by (capacity*2)+2
     }
}
```



```
16
JavaJavaScript
34
```

If the size is larger than the size of characters then you can reduce the storage using trimToSize().

```
public class Demo{

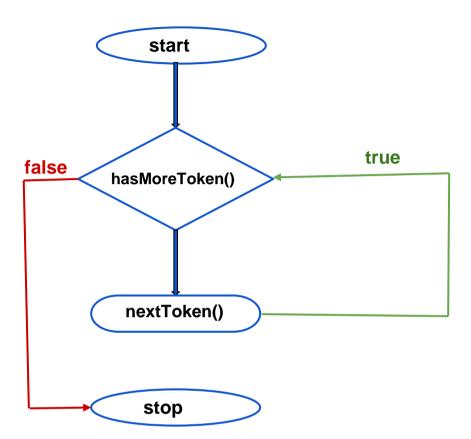
public static void main(String[] args) {
    StringBuffer st = new StringBuffer();
    System.out.println(st.capacity());
    st.append("Java");
    st.append("JavaScript");
    System.out.println(st);
    st.append("James Gosling");
    System.out.println(st.capacity());
    st.trimToSize();
    System.out.println(st.capacity());
}
```

```
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```



String Tokenizer:

StringTokenizer class in Java is used to break a string into tokens.



```
import java.util.StringTokenizer;

public class Demo{
    public static void main(String[] args) {
        String s = "JAVA PYTHON SQL AI";
        StringTokenizer st = new StringTokenizer(s);

        while(st.hasMoreTokens()) {
            System.out.println(st.nextToken());
        }
    }
}
```



JAVA PYTHON SQL AI