

```
public static void main(String[] args) {  
    Date sDate = new Date();  
    long sTime = sDate.getTime();  
    System.out.println("Start Time for StringBuffer: " + new Timestamp(sTime));  
        StringBuffer s = new StringBuffer("AA");  
        for (int i=0; i< 10000; i++){  
            s.append(i);  
        }  
        Date eDate = new Date();  
        long eTime = eDate.getTime();  
    System.out.println("End Time for StringBuffer: " + new Timestamp(eTime));  
    System.out.println("Time taken to Execute StringBuffer process " + (eTime-  
sTime) + "ms");
```

```
    Date strDate = new Date();  
    long strTime = strDate.getTime();  
    System.out.println("Start Time for String: " + new Timestamp(strTime));  
    String str = new String("AA");  
    for (int i=0; i< 10000; i++){  
        str+=i;  
    }  
    Date eStrDate = new Date();  
    long eStrTime = eStrDate.getTime();  
    System.out.println("End Time for String: " + new Timestamp(eStrTime));  
    System.out.println("Time taken to Execute String process " + (eStrTime-  
strTime) + "ms");
```

}

Output:

Start Time for StringBuffer: 2019-07-22 13:58:03.159

End Time for StringBuffer: 2019-07-22 13:58:03.176

Time taken to Execute StringBuffer process 17ms

Start Time for String: 2019-07-22 13:58:03.182

End Time for String: 2019-07-22 13:58:03.471

Time taken to Execute String process 289ms

```
public static void main(String[] args) {  
    int N = 77777777;  
    long t;  
    {  
        StringBuffer sb = new StringBuffer();  
        t = System.currentTimeMillis();  
        for (int i = N; i > 0 ; i--) {  
            sb.append("");  
        }  
        System.out.println(System.currentTimeMillis() - t);  
    }  
  
    {  
        StringBuilder sb = new StringBuilder();  
        t = System.currentTimeMillis();  
        for (int i = N; i > 0 ; i--) {  
            sb.append("");  
        }  
        System.out.println(System.currentTimeMillis() - t);  
    }  
}
```