

JAVA EXAMPLES - STRING OPTIMIZATION

http://www.tutorialspoint.com/javaexamples/string_optimization.htm

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Problem Description:

How to optimize string creation ?

Solution:

Following example optimizes string creation by using String.intern method.

```
public class StringOptimization{
    public static void main(String[] args){
        String variables[] = new String[50000];
        for( int i=0;i <50000;i++){
            variables[i] = "s"+i;
        }
        long startTime0 = System.currentTimeMillis();
        for(int i=0;i<50000;i++){
            variables[i] = "hello";
        }
        long endTime0 = System.currentTimeMillis();
        System.out.println("Creation time"
+ " of String literals : "+ (endTime0 - startTime0)
+ " ms" );
        long startTime1 = System.currentTimeMillis();
        for(int i=0;i<50000;i++){
            variables[i] = new String("hello");
        }
        long endTime1 = System.currentTimeMillis();
        System.out.println("Creation time of"
+ " String objects with 'new' key word : "
+ (endTime1 - startTime1)
+ " ms");
        long startTime2 = System.currentTimeMillis();
        for(int i=0;i<50000;i++){
            variables[i] = new String("hello");
            variables[i] = variables[i].intern();
        }
        long endTime2 = System.currentTimeMillis();
        System.out.println("Creation time of"
+ " String objects with intern(): "
+ (endTime2 - startTime2)
+ " ms");
    }
}
```

Result:

The above code sample will produce the following result.The result may vary.

```
Creation time of String literals : 0 ms
Creation time of String objects with 'new' key word : 31 ms
Creation time of String objects with intern(): 16 ms
Loading [Mathjax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```