

JAVA EXAMPLES - CONCATENATE STRINGS

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

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Problem Description:

How to optimize string concatenation ?

Solution:

Following example shows performance of concatenation by using "+" operator and StringBuffer.append method.

```
public class StringConcatenate{
    public static void main(String[] args){
        long startTime = System.currentTimeMillis();
        for(int i=0;i<5000;i++){
            String result = "This is"
                + "testing the"
                + "difference"+ "between"
                + "String"+ "and"+ "StringBuffer";
        }
        long endTime = System.currentTimeMillis();
        System.out.println("Time taken for string"
            + "concatenation using + operator : "
            + (endTime - startTime)+ " ms");
        long startTime1 = System.currentTimeMillis();
        for(int i=0;i<5000;i++){
            StringBuffer result = new StringBuffer();
            result.append("This is");
            result.append("testing the");
            result.append("difference");
            result.append("between");
            result.append("String");
            result.append("and");
            result.append("StringBuffer");
        }
        long endTime1 = System.currentTimeMillis();
        System.out.println("Time taken for String concatenation"
            + "using StringBuffer : "
            + (endTime1 - startTime1)+ " ms");
    }
}
```

Result:

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

```
Time taken for stringconcatenation using + operator : 0 ms
Time taken for String concatenationusing StringBuffer : 22 ms
Loading [Mathjax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```