



# Online Java Compiler IDE

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```
1  //String Compression
2  // 1. You are given a string.
3  // 2. You have to compress the given string in the following two ways -
4  //   First compression -> The string should be compressed such that consecutive duplicate
5  //   For "aaabbccdee", the compressed string will be "abcde".
6  //   Second compression -> The string should be compressed such that consecutive duplicat
7  //   For "aaabbccdee", the compressed string will be "a3b2c2de2".
8  import java.util.*;
9  public class MyClass {
10     public static String compression1(String str)
11     {
12         String s=str.charAt(0)+"";
13         for(int i=1;i<str.length();i++) // int i=1 NOT i=0
14         {
15             char curr=str.charAt(i);
16             char prev=str.charAt(i-1);
17
18             if(curr!=prev)
19                 s+=curr;
20         }
21         return s;
22     }
23
24     public static String compression2(String str)
25     {
26         String s=str.charAt(0)+"";
27         int count=1;
28
29         for(int i=1;i<str.length();i++)
30         {
31             char curr=str.charAt(i);
32             char prev=str.charAt(i-1);
33
34             if(curr==prev)
35                 count++;
36             else
37             {
38                 if(count>1)
39                 {
40                     s+=count; // adding number of counts or occurrence of the the characte
41                     count=1; // re-setting again count to 1 for next character counting
42                 }
43                 s+=curr; // if character is single only then directly add curr elemtn to
44             }
45
46         }
47         // this is must which adds last count of the char
48         if(count>1)
49         {
50             s+=count;
51             count=1;
52         }
53
54         return s;
55     }
56
57     public static void main(String[] args) {
58         Scanner scn = new Scanner(System.in);
59         String str = scn.next();
60         System.out.println(compression1(str));
61         System.out.println(compression2(str));
62     }
63 }
```

### CommandLine Arguments

### Stdin Inputs

wwwaaadexxxxxx


### Result

**CPU Time: 0.30 sec(s), Memory: 40036 kilobyte(s)**

**compiled and executed in 0.87 sec(s)**

wadex  
w4a3dex6

#### Note:

1. For file operations - upload files using upload button . Files will be upload to /uploads folder. You can read those files in program from /uploads folder. To write a file from your program, write files to '/myfiles' folder. Please note the uploaded files stored in the server only for the current session.
2. For detailed documentation check - [Our Documentation](#), or check our [Youtube channel](#).

Thanks for using our  
**Online Java Compiler IDE**  
to execute your program



### Know Your JDoodle

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