## Power of a String

Take a **String str** as input and calculate the **Power** of the string.

Power of a string is defined as the  ${\it maximum length}$  of  ${\it substring}$  that contains only one  ${\it unique}$  character.

max=\$ 2 3 4 cwr= 1/2

A **substring** is a continuous sequence of characters within a string.

Note: All characters in the string are in lowercase.

#### Sample Input 0

abbcccddddeeeeeffgghheecccc

Sample Output 0

5

a a b b b c c c c c b b b c c c c c b b

s[i] == s[i-] cum ++ whe s[i] \$\find max cum =1 ì

```
curr = 1/2
max = 1/2
```

# aabbb

```
1 import java.io.*;
2 import java.util.*;
 4 public class Solution {
      //abcaaabcaac: ans? (power)
 6
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
8
           String s = scn.next();
9
           int curr = 1:
10
           int max = 0;
          for(int i = 1; i < s.length(); i++){
11
12
               if(s.charAt(i) == s.charAt(i-1)){
13
                   curr++;
14
               }else{ //evaluate max
15
                   max = Math.max(max, curr);
16
                   curr = 1;
17
18
19
           max = Math.max(max, curr);
20
           System.out.println(max);
21
22
      }
23 }
```

## Count Substring of 0 and 1

Given a binary string **s**, return the number of **non-empty** <u>substrings</u> that have the same number of **0's** and **1's**, and all the **0's** and all the **1's** in these substrings are grouped consecutively. Substrings that occur multiple times are counted the number of times they occur.

Sample Input 0

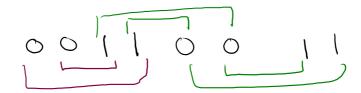
00110011

Sample Output 0

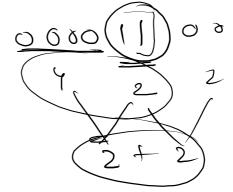
6



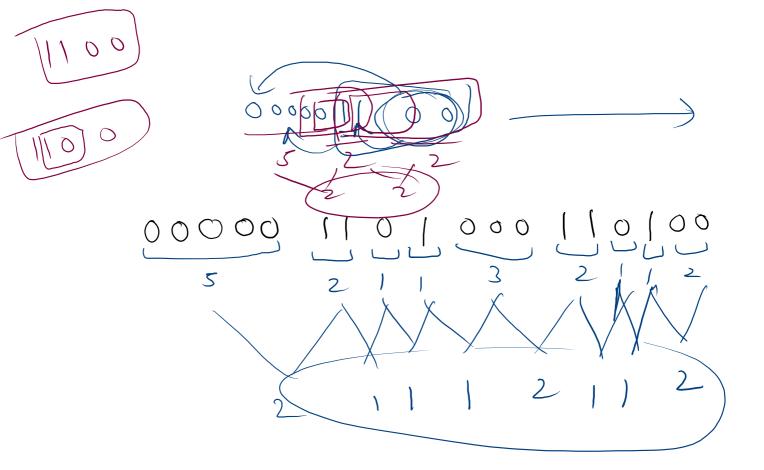
11--- 00---

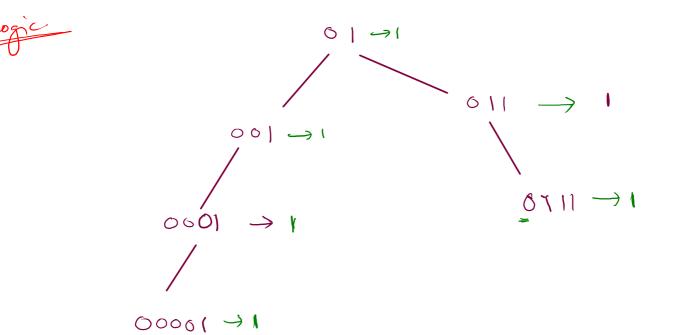


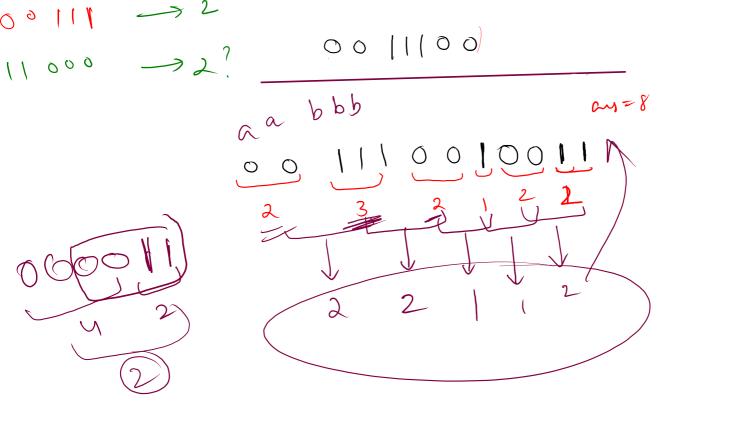










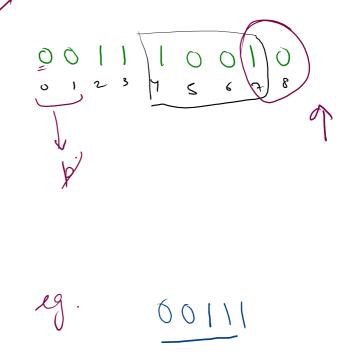


m=0+2+2+1+1+2

min ( p, c) =

1 import java.io.\*; 2 import java.util.\*; 4 public class Solution { public static void main(String[] args) { Scanner scn = new Scanner(System.in); String s = scn.next(); 9 10 int p = 0; 11 int c = 1; 12 13 int ans = 0; 14 15 for(int i = 1; i < s.length(); i++){ 16 if(s.charAt(i) == s.charAt(i-1)){ 17 C++; 18 }else{ 19 ans += Math.min(p,c); 20 p = c;21 c = 1;22 23 24 ans += Math.min(p,c); System.out.println(ans);

26 27 }



#### Merge Strings Alternatively

Take two strings as input.

 $\label{eq:merge} \textbf{Merge} \ \text{both the strings} \ \textbf{alternatively}.$ 

Note: Length of strings will be same.

#### Sample Input 0

GEEK STER

Sample Output 0

**GSETEEKR** 

```
"GSETEEKR"
```

```
GEEK
0123
STER
```

```
1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
 5
 6
      public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
 8
           String s = scn.next();
 9
           String t = scn.next();
11
           String ans = "";
12
           for(int i = 0; i < s.length(); i++){
13
               ans += s.charAt(i);
14
               ans += t.charAt(i);
15
16
           System.out.println(ans);
17
18 }
```

