https://course.acciojob.com/idle?question=876a58a7-2c96-417b-b9b 5-01c73f66951e

EASY

Max Score: 30 Points

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Minimum Number of Flips to Make the Binary String Alternating

Ankit has been given a binary string str containing either 0 or 1. A binary string is called beautiful if it contains alternating 0s and 1s.

For Example: '0101', '1010', '101', '010' are beautiful strings.

He wants to make ${f str}$ beautiful by performing some operations on it. In one operation, Ankit can convert ${f 0}$ into ${f 1}$ or vice versa.

Your task is to determine the minimum number of operations Ankit should perform to make ${f str}$ beautiful.

Input Format

The only line of input contains a binary string str.

You need to complete makeBeautiful function which contains string str and return minimum number of operation required

Output Format

Print the minimum operations needed to make ${f str}$ beautiful.

Example 1

Input

0000

Output

2

Explanation

The two beautiful strings that can be formed from the given 'str' are "1010" and "0101".

Ankit can transform 'str' to "1010" by performing the following operations:

Replace '0' at index 0 by '1' and replace '0' at index 2 by '1'.

Ankit can transform 'str' to "0101" by performing the following operations:

Replace '0' at index 1 by '1' and replace '0' at index 3 by '1'.

The minimum number of operations in transforming 'str' to either of the two beautiful strings is 2.

Example 2

Input

1010

Output

0

Explanation

Given 'str' is already beautiful so the minimum number of operations required is 0.

Constraints

```
2 \ll |\mathbf{str}| \ll 10^5
```

str[i] = '1' or '0', where 'str|' denotes the length of 'str'.

Topic Tags

- Strings
- Sliding Window
- Greedy
- DP

My code

```
// in ja∨a
import java.util.*;
import java.lang.*;
import java.io.*;
public class Main
     public static void main (String[] args) throws java.lang.Exception
           //your code here
    //here ya to 1 se start ya fir 0 se
    Scanner s=new Scanner(System.in);
    String st=s.next();
    //if start with 0
    int sum1=0:
    //if start with 1
    int sum2=0;
    for(int i=0;i<st.length();i++)
     char ch =st.charAt(i);
     int r=i%2;
```

```
if(r==0 && ch=='1') sum1+=1;
if(r==0 && ch=='0') sum2+=1;
if(r==1 && ch=='0') sum1+=1;
if(r==1 && ch=='1') sum2+=1;
}
int max=sum1<sum2?sum1:sum2;
System.out.print(max);
}
}</pre>
```