School

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Medium

Easy

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There is a 10% penalty for each wrong submission. **Necklace Maker**

Basic

Rahul is a necklace maker and he loves to design necklaces from the beads of 0's and 1's. As a designer he makes necklaces according to demands and recently he got to know about new good necklaces being popular in the market where no two consecutive beads in a necklace are same i.e. 01010 is a good necklace but 01110 is not.

Mr. Raj is a necklace dealer and gives Rahul a contract to make some good necklaces for his firm. Rahul managed to make all necklaces but at the time of delivery he found that out of all his neclaces one necklace had a defect. Rahul is poor in solving problems and ask for your help to find minimum number of beads he needs to remove to make a defected necklace a good neclace.

Input:

The first line of the input contains an integer 'T' denoting the number of test cases. Then T test cases follow. Each test case consists of a single line containing a string 'S' of 0's and 1's which represents the pattern of a necklace

Output:

For each test case, print in a new line, the minimum number of beads to be removed from a defected necklace to make it a good necklace.

Constraints:

1<=T<=1000

1<=length of pattern(S)<=1000

Example:

Input:

3

00000

11110

Output:

101010

4

3 0

Explanation:

00000 -> minimum 4 beads need to be removed to make it a good necklace having pattern 0

11110 -> minimum 3 beads need to be removed to make it good necklace having pattern 10

101010 -> no beads need to be removed

Author: Shubham Joshi 1



```
3 import java.io.*;
 4 class GFG
 5 - {
       public static void main (String[] args)
 6
 7 -
        {
 8
        //code
 9
10 }
```

Result:

Submit

Test

Editorial

ALL SUBMISSIONS OF THIS PROBLEM

MY SUBMISSIONS OF THIS PROBLEM

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Users	Score
amitkumar05	100
Nilanjana Lodh	100
Mohit Agarwal	100
Sonam Gupta	100
Titas	100
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