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Replace Letters in a String

Problem Leaderboard Submissions

A string consisting of the letters **x**, **y** and **z**. We can only change them by the following operation:

• Replace any two adjacent distinct characters with the third character.

Find the length of the shortest string through applying this action as much as necessary.

For example, given the string xyx we can reduce it to a 1 character string by replacing xy with z and zx with y:

xyx -> zx -> y

Input Format

The first line contains the number of test cases t.

Each of the next *t* lines contains a string *s* to process.

Sample

3

zxy

yzxy

ZZZZZ

Constraints

1 <= t <= 100 1 < |s| <= 100

Output Format

For each test case, print the length of the shortest string on a new line.

2

1

Sample Input 0

yzxy

ZZZZZ

Sample Output 0

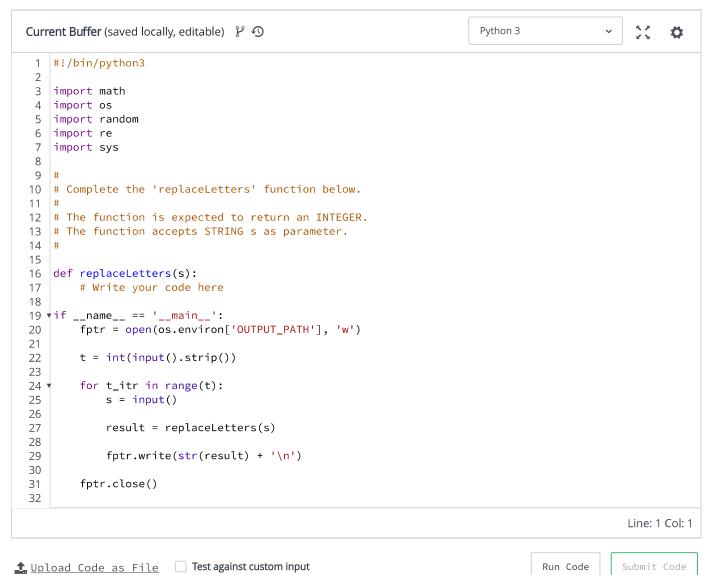
2

Contest ends in 31 minutes

Submissions: 106 Max Score: 50 Difficulty: Advanced

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