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onur_koken ▾

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Replace Letters in a String

Problem

Submissions

Leaderboard

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

$1 \leq t \leq 100$ $1 \leq |s| \leq 100$

Output Format

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

2

1

5

Sample Input 0

```
3
zxy
yzxy
zzzzz
```

Sample Output 0

```
2
1
5
```

Contest ends in 31 minutes



Submissions: 106

Max Score: 50

Difficulty: Advanced

Rate This Challenge:

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Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'replaceLetters' function below.
11 #
12 # The function is expected to return an INTEGER.
13 # The function accepts STRING s as parameter.
14 #
15
16 def replaceLetters(s):
17     # Write your code here
18
19 if __name__ == '__main__':
20     fptr = open(os.environ['OUTPUT_PATH'], 'w')
21
22     t = int(input().strip())
23
24     for t_itr in range(t):
25         s = input()
26
27         result = replaceLetters(s)
28
29         fptr.write(str(result) + '\n')
30
31     fptr.close()
32
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code