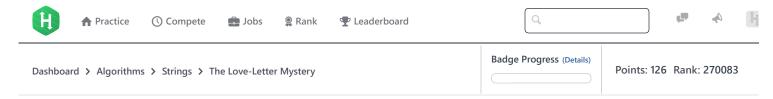
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The Love-Letter Mystery **■**



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James found a love letter his friend Harry has written for his girlfriend. James is a prankster, so he decides to meddle with the letter. He changes all the words in the letter into palindromes.

To do this, he follows two rules:

- 1. He can reduce the value of a letter, e.g. he can change d to c, but he cannot change c to d.
- 2. In order to form a palindrome, if he has to repeatedly reduce the value of a letter, he can do it until the letter becomes *a*. Once a letter has been changed to *a*, it can no longer be changed.

Each reduction in the value of any letter is counted as a single operation. Find the minimum number of operations required to convert a given string into a palindrome.

Input Format

The first line contains an integer T, i.e., the number of test cases.

The next T lines will contain a string each. The strings do not contain any spaces.

Constraints

 $1 \le T \le 10$

 $1 \le length of string \le 10^4$

All characters are lower case English letters.

Output Format

A single line containing the number of minimum operations corresponding to each test case.

Sample Input

4

abc

abcba abcd

cba

Sample Output

- 2
- 0
- 2

Explanation

- 1. For the first test case, abc -> abb -> aba.
- 2. For the second test case, abcba is already a palindromic string.
- 3. For the third test case, $abc\mathbf{d} \rightarrow abc\mathbf{c} \rightarrow abc\mathbf{b} \rightarrow abc\mathbf{a} = ab\mathbf{c}a \rightarrow ab\mathbf{b}a$.

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4. For the fourth test case, cba -> bba -> aba.

```
Current Buffer (saved locally, editable) &
                                                                                          Java 7
                                                                                                                           Ö
 1 ▼ import java.io.*;
 2 import java.util.*;
   import java.text.*;
 3
   import java.math.*;
   import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 1
        static int theLoveLetterMystery(String s){
            // Complete this function
10
11
12
        public static void main(String[] args) {
13 ▼
14
            Scanner in = new Scanner(System.in);
15
            int q = in.nextInt();
            for(int a0 = 0; a0 < q; a0++){
16 ▼
                String s = in.next();
17
18
                int result = theLoveLetterMystery(s);
19
                System.out.println(result);
20
21
        }
22
    }
23
                                                                                                                   Line: 1 Col: 1
```

<u>Upload Code as File</u> Test against custom input

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