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

- $1 \leq T \leq 10$
- $1 \leq \mathit{length} \; \mathit{of} \, \mathit{string} \leq 10^4$

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 4 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, $abc\mathbf{d} \rightarrow abc\mathbf{c} \rightarrow abc\mathbf{b} \rightarrow abc\mathbf{a} = ab\mathbf{c}a \rightarrow ab\mathbf{b}a$.
- 4. For the fourth test case, **c**ba -> **b**ba -> aba.

Related Topics

String Basics

Palindrome

Alphabets

Submissions: 43476

Max Score: 20

Difficulty: Easy

More

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 1 ▼import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 7 ▼public class Solution {
 8
         public static void main(String[] args) {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
9 ▼
10
11
12 }
                                                                                                                                        Line: 1 Col: 1
                       ☐ Test against custom input
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