The Love-Letter Mystery



Problem Statement

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 2 rules:

(a) He can reduce the value of a letter, e.g. he can change 'd' to 'c', but he cannot change 'c' to 'd'.
(b) 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.

Output Format

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

Constraints

 $1 \le T \le 10$

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

All characters are lower case English letters.

Sample Input #00

3
abc
abcba
abcd

Sample Output #00

2 0 4

Explanation

For the first test case, ab*c* -> ab*b* -> ab*a*.

For the second test case, abcba is a palindromic string.

For the third test case, abc*d* -> abc*c* -> abc*b* -> abc*a* = ab*c*a -> ab*b*a.