

Make a Palindrome

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Given a string of lowercase letters. Find minimum characters to be inserted in string so that it can become palindrome. We can change positions of characters in string.

Input:

First line consists of T test cases. Only line consists of a String s.

Output:

Single line output, print the count of minimum characters to be inserted.

Constraints:

$1 \leq T \leq 100$

$1 \leq |String| \leq 10000$

Example:

Input:

2

geeksforgeeks

aabbc

Output:

2

0

Explanation:

For the first test case:

geeksforgeeks can be changed as:

geeksroforskeeg

geeksorfroskeeg

and many more

For the second test case:

It can form a palindrome without insertion of any element.

abcba

bacab