The Love-Letter Mystery

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.

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

Constraints
$1 \leq T \leq 10$
$1 \leq$ *length of string* $\leq 10^4$
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.