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Gargi and Strings

Problem code: SIDSTR

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Gargi is thinking of a solution to a problem. Meanwhile, her friend asks her to solve another problem. Since Gargi is busy in her own problem, she seeks your help to solve the new problem.

You are given a string S containing characters a-z (**lower case letters**) only. You need to change the string to a new string consisting of only one letter from a-z.

For a given character $S[i]$ in the string, if you change it to a character having lower ASCII value than the character $S[i]$, you gain points equal to the difference in ASCII value of the old character and the new character. Similarly, for a given character $S[i]$ in the string, if you change it to a character having higher ASCII value than the character $S[i]$, you lose points equal to the difference in ASCII value of the old character and the new character.

However, Gargi does not like gaining or losing points. She has asked you to change the string in such a way that the total losing or gaining of points at the end of the string conversion is minimum.

Give Gargi the **absolute** value of the points you have at the end of the string conversion.

Input

The first line of the input contains an integer T denoting the number of test cases. The description of T test cases follows.

The first line of each of the T test case contains a string S containing only lower case characters (a-z)

Output

For each test case, output a single line containing the answer.

Constraints

- $1 \leq T \leq 10$
- $1 \leq |S| \leq 100000$

Example

Input:

1
abba

Output:

2

Explanation

Example case 1. The new string can be **aaaa** where you have +2 points at the end of string conversion or it can be **bbbb** where you have -2 points at the end of string conversion. Hence the output is 2.

Author: saurabhnit

Date Added: 16-04-2016

Time Limit: 1 sec

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.1.2, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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