
The Dislex-Wonga test

P98345_en

Concurs On-line 1 (OIE09) (2009)

This year four adventurers went on vacation to Potige, a city in Kerala (India), and they discovered some Indians who speak a strange language called Malayalam. As a language already in development (let's say, like a beta version), it does not have too many grammatical rules yet.

The main rule is that all words must pass the Dislex-Wonga test. This primitive test consists in painting the letters of the word on a huge wall. Afterwards, two Indians get on a stage, and they start reading (singing) the word, one starting from the beginning and the other one from the end, in opposite directions. The word passes the test if both Indians sing the same song.

Neuquen, the chief of the Potige tribe, imposes adding the necessary letters until the word passes the Dislex-Wonga test, and charges a tax of one rupee on each letter added. Your mission is to help the poor guy who invented the word, so that he pays the least possible money to Neuquen.



Input

Input consists of several words w of length between 1 and 2000, made up only of lowercase letters, uppercase letters, and digits.

Output

For every w , compute the minimum number of necessary characters to add in order to pass the Dislex-Wonga test. If the answer is zero, print "Passes the Dislex-Wonga test".

Sample input

```
neuquen
MalayAlam
amoaroma
amoRoma
01010111100011100110
ACGTGTGTGT
madamImadam
acasohubobuhosaca
1
ablewasiereisawelba
123nadayosoyadan231
trlag6e6r14glud2275ilewleproeg5atieb
```

Sample output

```
Passes the Dislex-Wonga test
4
1
Passes the Dislex-Wonga test
3
3
Passes the Dislex-Wonga test
Passes the Dislex-Wonga test
Passes the Dislex-Wonga test
Passes the Dislex-Wonga test
2
20
```

Problem information

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