
Longest palindrome

P39399_en

Given a string s , please compute the longest suffix of s that is a palindrome, that is, that reads the same backward as forward.

Input

Input consists of several s , each one made up of between 1 and 10^6 lowercase letters.

Output

For every s , print the length of the longest suffix of s that is a palindrome.

Sample input 1

```
i
anna
abcbapep
zzzzzzzz
buenopuesmoltbepuesadios
```

Sample output 1

```
1
4
3
8
1
```

Problem information

Author: Salvador Roura

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