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## Longest palindrome

P39399\_en

Quinzè Concurs de Programació de la UPC - Final (2017-09-13)

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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

```
i
anna
abcbapep
zzzzzzzz
buenopuesmoltbepuesadios
```

### Sample output

```
1
4
3
8
1
```

### Problem information

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