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## Prefixes and suffixes

P33597\_en

Dotzè Concurs de Programació de la UPC - Semifinal (2014-07-02)

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Given two strings  $s$  and  $t$ , print the maximum  $k$  such that the prefix of length  $k$  of  $s$  is equal to the suffix of length  $k$  of  $t$ .

### Input

Input consists of several cases, each one with  $s$  and  $t$ . Every string is made up of between 1 and  $10^6$  lowercase letters.

### Output

For every case, print  $k$ .

#### Sample input

```
a b
z z
barbacoa acabar
cabar abacar
cabar acabat
cabar acabar
abacad ababa
acad academiacad
```

#### Sample output

```
0
1
3
0
0
5
3
4
```

### Problem information

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