Prefixes and suffixes   P33597_en

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 1

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

Sample output 1

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

Problem information

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