
Minimum cost to make two words equal**P24879_en**

We are given two words s and t made up of only lowercase letters, and we must make them equal. We can only perform two kind of operations, as many times as needed: Remove a letter, with cost 3, and duplicate a letter, with cost 2. What is the minimum possible cost?

For example, for $s = \text{"aaba"}$ and $t = \text{"abb"}$ the minimum cost is 7, which corresponds to duplicating the 'b' and removing the last 'a' of s , and duplicating the 'a' of t .

Input

Input consists of several cases with s and t , both with between 1 and 1000 letters.

Output

For every case, print the minimum cost to make the two words equal.

Sample input 1

```
a a
a b
a aa
aaba abb
xxxxzz zxxxx
g ggggggg
```

Sample output 1

```
0
6
2
7
9
12
```

Problem information

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