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**Minimum cost to make two words equal****P24879\_en**

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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  $s = "aaba"$  and  $t = "abb"$  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**

Author: Salvador Roura

Translator: Salvador Roura

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