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The Virtual Learning Environment for Computer Programming

## Minimum cost to make two words equal

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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

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


## Sample output

0
6
2
7
9
12

## Problem information

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