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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*.

Sample output

#### 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	0
a b	6
a aa	2
aaba abb	7
XXXXZZ ZXXXX	9
a aaaaaaa	12

### **Problem information**

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