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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	Sample output
a a	0
a b	6
a aa	2
aaba abb	7
XXXXZZ ZXXXX	9
a adadada	12

Problem information

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