

Problem A

You are given two Strings: A and B. You would like to align these two strings by inserting '-' characters in them so that every character in A lines up with the same character in B or with a '-' in B, and vice versa. Each maximal sequence of consecutive '-' characters costs x, plus an additional 1 per each '-' character. For example, changing "ABC" to "A-B-C" costs $x+1+x+1$, while changing it to "A-BC" costs $x+2$. Given, A, B, and x return the minimum cost to align the two strings.

- A and B each contain between 1 and 50 uppercase letters ('A'-'Z'), inclusive.
- x will be between 0 and 100, inclusive.

See examples for input/output format.

A.IN

2

ABC

ACE

1

AAABAAAABAA

AAAABAABAAA

1

A.OUT

4

7