

Longest Common Subsequences

(Time Limit: 1 second)

Problem Description

Please find the length of a longest common subsequence of two given nonempty strings.

Input Format

Each test case contains two nonempty strings, separated by whitespace character(s) and consisting of characters 'a' and 'b'. Two consecutive test cases are separated by whitespace character(s). The input terminates with EOF.

Output Format

For each test case, output the length of a longest common subsequence of the two given strings.

Technical Specification

- There are at most 10 test cases.
- Each string to be processed is at most 100 in length.

Example

Sample Input:	Sample Output:
aaab	2
bbaa	5
aababa	4
abaabbba	4
ababaaa	5
aaabba	
aabbbaab	
bbabba	
ababbbaaab	
bbaaba	

