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## 1001. Encryption

Total: 387 Accepted: 102

## **Description**

Time Limit: 1sec Memory Limit: 256MB

Alice is considering about sending some messages to Bob. However, she will feel embarrassed if the messages are read by others. Alice is so smart that she develops a novel encryption method. Alice will send two strings to Bob. We call them String\_A and String\_B. The meaningful message that Alice really want to send is hidden in String\_A and String\_B. We call the meaningful message String\_M. String\_M satisfies some rules as follows.

- 1) String M is the maximum-length common subsequence of String A and String B;
- 2) A subsequence of a given sequence is the given sequence with some elements (possible none) left out.

Given String\_A and String\_B, Bob wants to know how long String\_M is. However, Bob is not good at mathematics. Since you are the most NB (Nice-and-Brilliant) Hacker in campus, Bob ask you to help him. Given String\_A and String\_B, could you calculate the length of String\_M?

## **Input**

The input contains many test cases. Each test case contains two lines. The first line is the String\_A. The second line is the String\_B. (1<=length<=1000)

## **Output**

For each test case, you only need to output an integer in a line.

Sample Input		Сору
abcdefghij badfhcajie		
Sample Output		Сору
5		
	Submit	

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