23/05/2019 F - LCS

F-LCS

Time Limit: 2 sec / Memory Limit: 1024 MB

Score: 100 points

Problem Statement

You are given strings s and t. Find one longest string that is a subsequence of both s and t.

Notes

A *subsequence* of a string x is the string obtained by removing zero or more characters from x and concatenating the remaining characters without changing the order.

Constraints

- s and t are strings consisting of lowercase English letters.
- $1 \le |s|, |t| \le 3000$

Input

Input is given from Standard Input in the following format:

s t

Output

Print one longest string that is a subsequence of both s and t. If there are multiple such strings, any of them will be accepted.

Sample Input 1

Сору

axyb abyxb

Sample Output 1



axb

1/2

Copy

Copy

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The answer is axb or ayb; either will be accepted.

Sample Input 2 Copy	
aa xayaz	Сору
Sample Output 2 Copy	
aa	Сору
Sample Input 3 Copy	
a z	Сору
Sample Output 3 Copy	
	Сору
The answer is (an empty string).	
Sample Input 4 Copy	
abracadabra avadakedavra	Сору
Sample Output 4 Copy	
	Сору

aaadara