# Problem C. LCS

**Time limit** 2000 ms **Mem limit** 1048576 kB

#### **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**

- ullet 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:

 $egin{bmatrix} s \ t \end{bmatrix}$ 

## 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 1

Input	Output
axyb abyxb	axb

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

#### Sample 2

Input	Output
aa	aa
xayaz	

## Sample 3

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Input	Output
a z	

The answer is (an empty string).

## Sample 4

Input	Output
abracadabra avadakedavra	aaadara