

# Problem E. 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

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

## 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 1

Input	Output
axyb abyxb	axb

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

### Sample 2

Input	Output
aa xayaz	aa

### Sample 3

Input	Output
a z	

The answer is (an empty string).

#### Sample 4

Input	Output
abracadabra avadakedavra	aaadara