

B. Longest Common Substring

time limit per test: 2 seconds

memory limit per test: 512 megabytes

Find the longest common substring of two given strings  $s$  and  $t$ .

Input

First line of the input has single string  $s$ , second —  $t$  ( $1 \leq |s|, |t| \leq 100\,000$ ). Strings are made of small latin letters.

Output

Output single line — the longest common substring of strings  $s$  and  $t$ . Output lexicographically minimal one, in case of multiple possible answers.

Examples

input	Copy
bababb zabacabba	
output	Copy
aba	
input	Copy
qrdq rqqqrdqrqd	
output	Copy
qrdq	
input	Copy
hhhhhh hhhhhhh	
output	Copy
hhhhhh	
input	Copy
opopo ppppopopo	
output	Copy
opopo	

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

