20-04-20 10:02 Problem - C - Codeforces





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C. Minimal string

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Petya recieved a gift of a string s with length up to 10^5 characters for his birthday. He took two more empty strings t and u and decided to play a game. This game has two possible moves:

- Extract the **first** character of *s* and append *t* with this character.
- Extract the **last** character of *t* and append *u* with this character.

Petya wants to get strings s and t empty and string u lexicographically minimal.

You should write a program that will help Petya win the game.

Input

First line contains non-empty string s ($1 \le |s| \le 10^5$), consisting of lowercase English letters.

Output

Print resulting string u.

Examples

output

abdc

input	Сору
cab	
output	Сору
abc	
input	Сору
acdb	

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Finished

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Start virtual contest

→ Problem tags

Сору

strings *1700 data structures greedy No tag edit access

→ Contest materials

- Announcement
- Tutorial

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