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ITMO Academy: pilot course » Suffix Array » Step 5 » Practice

B. Longest Common Substring

time limit per test: 2 seconds¹ 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 ($1 \le |s|, |t| \le 100\,000$). Strings are made of small latin letters.

Output

opopo

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

Examples Сору input bababb zabacabba Сору output aba input Сору qrdq rqqqrdqrqd Сору output qrdq input Сору hhhhhh hhhhhhh Сору output hhhhhh input Сору opopo рррророро Сору output

→ **Submit?**Language: GNU G++20 13.2 (64 bit, win ▼

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