

Problem C. C- frequency array

Time limit 2000 ms

Mem limit 262144 kB

Problem Statement

You are given a string S consisting of lowercase English letters. Find the lexicographically (alphabetically) smallest lowercase English letter that does not occur in S . If every lowercase English letter occurs in S , print `None` instead.

Constraints

- $1 \leq |S| \leq 10^5$ ($|S|$ is the length of string S .)
- S consists of lowercase English letters.

Input

Input is given from Standard Input in the following format:

S

Output

Print the lexicographically smallest lowercase English letter that does not occur in S . If every lowercase English letter occurs in S , print `None` instead.

Sample 1

Input	Output
atcoderregularcontest	b

The string `atcoderregularcontest` contains `a`, but does not contain `b`.

Sample 2

Input	Output
abcdefghijklmnopqrstuvwxyz	None

This string contains every lowercase English letter.

Sample 3

Input	Output
fajsonslsfepbjtsaayxbymeskptcumtwrmkkinjxnnucagfrg	d