

**Begin:** 2023-07-17  
22:30 BST

# Training Contest 03

**End:** 2023-07-23  
00:00 BST

**Elapsed:** 2:37:52

Running

**Remaining:**  
4:22:52:07

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**Time limit**

500 ms

**Mem limit**

262144 kB

M - M



## WHAT DO WE NEED cAPS LOCK FOR?

Caps lock is a computer keyboard key. Pressing it sets an input mode in which typed letters are capital by default. If it is pressed by accident, it leads to accidents like the one we had in the first passage.

Let's consider that a word has been typed with the Caps lock key accidentally switched on, if:

- either it only contains uppercase letters;
- or all letters except for the first one are uppercase.

In this case we should automatically change the case of all letters. For example, the case of the letters that form words "hELLO", "HTTP", "z" should be changed.

Write a program that applies the rule mentioned above. If the rule cannot be applied, the program should leave the word unchanged.

### Input

The first line of the input data contains a word consisting of uppercase and lowercase Latin letters. The word's length is from 1 to 100 characters, inclusive.

### Output

Print the result of the given word's processing.

### Sample 1

Input	copy	Output	copy
cAPS		Caps	

### Sample 2

Input	copy	Output	copy
Lock		Lock	





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Server Time: 2023-07-18 01:07:52 BST

