

Toggling Cases

Time Limit : 1 sec, Memory Limit : 131072 KB

Toggling Cases

Write a program which converts uppercase/lowercase letters to lowercase/uppercase for a given string.

Input

A string is given in a line.

Output

Print the converted string in a line. Note that you do not need to convert any characters other than alphabetical letters.

Constraints

- The length of the input string < 1200

Sample Input

```
fAIR, LATER, OCCASIONALLY CLOUDY.
```

Sample Output

```
Fair, later, occasionally cloudy.
```

Source: https://onlinejudge.u-aizu.ac.jp/problems/ITP1_8_A