# ☆ Press A for Caps Lock

A keyboard has the 'A' key remapped to 'Caps Lock', meaning that whenever a user hits the 'A' key, it toggles the Caps Lock functionality. The Caps Lock functionality, when toggled on, will capitalize all letters between a and z. If the Shift key is pressed when Caps Lock is toggled on, the character will be output as lowercase. Caps Lock should have no impact to characters outside of this range.

Implement the function *pressAForCapsLock*, which returns the string that would have been output when a user attempted to type the input string on this keyboard. Assume Caps Lock is initially toggled off.

**Input and Output:**
The input is a string, *message*, containing the string the user intends to type on this keyboard.
The output is a string consisting of what would have been output on the monitor for the given input.

**Constraints**
Caps Lock key is initially toggled off.
Caps Lock key will not be pressed when typing the message, meaning all capital letters are entered using the Shift key.

**Sample Input 1:**
My keyboard is broken!

**Sample Output 1:**
My keyboRD IS BROKEN!

**Explanation 1:**

The letter 'a' in "keyboard" is not printed since pressing it toggles Caps Lock instead. Once Caps Lock is toggled on, all subsequent letters are output as uppercase. The exclamation point is not impacted as Caps Lock should only impact letters. 'M' was also not impacted since Caps Lock was not on to begin with.

**Sample Input 2:**

"Baa, Baa!" said the sheep

**Sample Output 2:**

"B, B!" sID THE SHEEP

**Explanation 2:**

The 'a's in each "Baa" cause Caps Lock to be toggled on, then off. The 's' in "said" is output as lowercase given Caps Lock is off. The 'a' in "said" toggles Caps Lock on, so the remaining characters are output as uppercase.

Original code | Java 7

```
 1 ▶ import ↔;
 8
 9   public class Solution {
10
11

12       // Complete the pressAForCapsLock function below.
13 ▾     static String pressAForCapsLock(String message) {
14
15
16       }
17
18


19 ▶    public static void main(String[] args) throws IOException {↔}
33   }
34
```

Line: 13 Col: 1

☐ **Test against custom input**

Run Code

Submit code & Continue

(You can submit any number of times)

Original code

C++

```cpp
1 ▶ #include ↔

2

3   using namespace std;

4

5

6   // Complete the pressAForCapsLock function below.
7 ▼ string pressAForCapsLock(string message) {
8
9
10  }

11

12
```

```cpp
13  int main()
14  {
15      ofstream fout(getenv("OUTPUT_PATH"));
16
17      string message;
18      getline(cin, message);
19
20      string res = pressAForCapsLock(message);
21
22      fout << res << "\n";
23
24      fout.close();
25
26      return 0;
27  }
28
```

Line: 19  Col: 1

☐ Test against custom input

Run Code    Submit code & Continue

(You can submit any number of times)