**[Make The String Great](https://leetcode.com/problems/make-the-string-great/)**

Given a string s of lower and upper case English letters.

A good string is a string which doesn't have **two adjacent characters** s[i] and s[i + 1] where:

* 0 <= i <= s.length - 2
* s[i] is a lower-case letter and s[i + 1] is the same letter but in upper-case or **vice-versa**.

To make the string good, you can choose **two adjacent** characters that make the string bad and remove them. You can keep doing this until the string becomes good.

Return *the string* after making it good. The answer is guaranteed to be unique under the given constraints.

**Notice** that an empty string is also good.

**Example 1:**

**Input:** s = "leEeetcode"

**Output:** "leetcode"

**Explanation:** In the first step, either you choose i = 1 or i = 2, both will result "leEeetcode" to be reduced to "leetcode".

**Example 2:**

**Input:** s = "abBAcC"

**Output:** ""

**Explanation:** We have many possible scenarios, and all lead to the same answer. For example:

"abBAcC" --> "aAcC" --> "cC" --> ""

"abBAcC" --> "abBA" --> "aA" --> ""

**Example 3:**

**Input:** s = "s"

**Output:** "s"

**Constraints:**

* 1 <= s.length <= 100
* s contains only lower and upper case English letters.

class Solution {

public:

    std::string makeGood(std::string s) {

        std::stack<char> stack;

        for (char c : s) {

            if (!stack.empty() && std::abs(c - stack.top()) == 32) {

                stack.pop();

            } else {

                stack.push(c);

            }

        }

        std::string result;

        while (!stack.empty()) {

            result = stack.top() + result;

            stack.pop();

        }

        return result;

    }

};

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