961 Long Pressed Name (link)

Description

Your friend is typing his `name` into a keyboard. Sometimes, when typing a character `c`, the key might get *long pressed*, and the character will be typed 1 or more times.

You examine the `typed` characters of the keyboard. Return `True` if it is possible that it was your friends name, with some characters (possibly none) being long pressed.

Example 1:

```
Input: name = "alex", typed = "aaleex"
Output: true
Explanation: 'a' and 'e' in 'alex' were long pressed.
```

Example 2:

```
Input: name = "saeed", typed = "ssaaedd"
Output: false
Explanation: 'e' must have been pressed twice, but it was not in the typed output.
```

Constraints:

- `1 <= name.length, typed.length <= 1000`
- `name` and `typed` consist of only lowercase English letters.

(scroll down for solution)

Solution

Language: cpp

Status: Accepted

```cpp
#include <string>
using namespace std;

class Solution {
public:
    bool isLongPressedName(string name, string typed) {
        int i = 0, j = 0;
        int n = name.size();
        int m = typed.size();

        while (i < n && j < m) {
            if (name[i] == typed[j]) {
                i++;
                j++;
            } else if (j > 0 && typed[j] == typed[j - 1]) {
                j++;
            } else {
                return false;
            }
        }


        while (j < m && typed[j] == typed[j - 1]) {
            j++;
        }

        return i == n && j == m;
    }
};
```