389 Find the Difference (link)

Description

You are given two strings s and t.

String t is generated by random shuffling string s and then add one more letter at a random position.

Return the letter that was added to t.

Example 1:

```
Input: s = "abcd", t = "abcde"
Output: "e"
Explanation: 'e' is the letter that was added.
```

Example 2:

```
Input: s = "", t = "y"
Output: "y"
```

Constraints:

```
• 0 <= s.length <= 1000
```

- t.length == s.length + 1
- s and t consist of lowercase English letters.

(scroll down for solution)

about:blank 72/104

Solution

Language: cpp

Status: Accepted

```
#include <string>
#include <unordered_map>
using namespace std;
class Solution {
public:
    char findTheDifference(string s, string t) {
        unordered_map<char, int> count;
        // Считаем частоту каждого символа в строке s
        for (char ch : s) {
            count[ch]++;
        // Вычитаем частоту каждого символа в строке t
        for (char ch : t) {
            if (--count[ch] < 0) {</pre>
                return ch; // Возвращаем символ, чья частота стала отрицательной
        }
        return ' '; // Здесь никогда не должны оказаться
    }
};
```

about:blank 73/104