11.07.2024, 16:50 LeetCode Submissions

# 383 Ransom Note (link)

## **Description**

Given two strings ransomNote and magazine, return true if ransomNote can be constructed by using the letters from magazine and false otherwise.

Each letter in magazine can only be used once in ransomNote.

#### Example 1:

```
Input: ransomNote = "a", magazine = "b"
Output: false
```

#### Example 2:

```
Input: ransomNote = "aa", magazine = "ab"
Output: false
```

#### Example 3:

```
Input: ransomNote = "aa", magazine = "aab"
Output: true
```

#### **Constraints:**

- 1 <= ransomNote.length, magazine.length <=  $10^5$
- ransomNote and magazine consist of lowercase English letters.

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### **Solution**

Language: cpp

#### **Status: Accepted**

```
#include <vector>
#include <string>
using namespace std;
class Solution {
public:
    bool canConstruct(string ransomNote, string magazine) {
        // Массив для подсчета количества каждой буквы ('a'-'z')
        vector<int> count(26, 0);
        // Подсчитываем буквы в журнале
        for (char ch : magazine) {
            count[ch - 'a']++;
        }
        // Проверяем ransomNote на основе счетчиков в magazine
        for (char ch : ransomNote) {
            if (count[ch - 'a'] > 0) {
                `count[ch - 'a']--;
                return false; // Недостаточно символов в magazine
            }
        }
        return true;
    }
};
```

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