383 Ransom Note

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Question:

Given an arbitrary ransom note string and another string containing letters from all the magazines, write a function that will return true if the ransom note can be constructed from the magazines; otherwise, it will return false.

Each letter in the magazine string can only be used once in your ransom note.

Note:

```
You may assume that both strings contain only lowercase letters.

canConstruct("a", "b") -> false

canConstruct("aa", "ab") -> false

canConstruct("aa", "aab") -> true

**fi <https://leetcode.com/problems/ransom-note/description/>
给定一个赎金信 (ransom) 字符串和一个杂志(magazine)字符串,判断第一个字符串ransom能不能由第二个字符串magazines里面的字符构成。如果可以构成,返回 true; 否则返回 false。

(题目说明: 为了不暴露赎金信字迹,要从杂志上搜索各个需要的字母,组成单词来表达意思。)

注意:

你可以假设两个字符串均只含有小写字母。

canConstruct("a", "b") -> false

canConstruct("aa", "ab") -> false

canConstruct("aa", "ab") -> true
```

Solution for Python3:

```
1
   class Solution1(object):
 2
        def canConstruct(self, ransomNote, magazine):
 3
 4
            :type ransomNote: str
 5
            :type magazine: str
 6
            :rtype: bool
 7
 8
            from collections import Counter
            return Counter(ransomNote) == (Counter(ransomNote) & Counter(magazine))
9
10
11 class Solution2(object):
12
        def canConstruct(self, ransomNote, magazine):
13
14
            :type ransomNote: str
15
            :type magazine: str
16
            :rtype: bool
17
            from collections import Counter
18
            return not Counter(ransomNote) - Counter(magazine)
19
```

Solution for C++:

```
class Solution {
public:
bool canConstruct(string ransomNote, string magazine) {
    int array[26] = {0};
```

```
for (char i : magazine) {
    array[i - 'a']++;
 5
 6
 7
                  for (char i : ransomNote) {
   if (--array[i - 'a'] < 0)</pre>
 8
 9
10
                              return false
                  }
11
12
                  return true;
            }
13
14 };
```