

# 387 First Unique Character in a String

2018年4月10日 14:40

## Question:

Given a string, find the first non-repeating character in it and return its index. If it doesn't exist, return -1.

### Examples:

s = "leetcode"

return 0.

s = "loveleetcode",

return 2.

**Note:** You may assume the string contain only lowercase letters.

来自 <<https://leetcode.com/problems/first-unique-character-in-a-string/description/>>

给定一个字符串，找到它的第一个不重复的字符，并返回它的索引。如果不存在，则返回 -1。

### 案例:

s = "leetcode"

返回 0.

s = "loveleetcode",

返回 2.

## Solution for Python3:

```
1  class Solution1:
2      def firstUniqChar(self, s):
3          """
4              :type s: str
5              :rtype: int
6          """
7          from collections import OrderedDict
8          d = OrderedDict()
9          for i in range(len(s)):
10             if d.get(s[i]):
11                 d[s[i]] += 1
12             else:
13                 d[s[i]] = 1
14             print(d)
15             if 1 not in d.values():
16                 return -1
17             return s.find(list(d.keys())[list(d.values()).index(1)])
18
19  class Solution2:
20      def firstUniqChar(self, s):
21          """
22              :type s: str
23              :rtype: int
24          """
```

```

25         letters='abcdefghijklmnopqrstuvwxyz'
26         index = [s.index(l) for l in letters if s.count(l) == 1]
27         return min(index) if len(index) > 0 else -1
28
29     class Solution3:
30         def firstUniqChar(self, s):
31             """
32             :type s: str
33             :rtype: int
34             """
35             letters = [0] * 26
36             for i in s:
37                 letters[ord(i) - ord('a')] += 1
38             for i in range(len(s)):
39                 if letters[ord(s[i]) - ord('a')] == 1:
40                     return i
41             return -1

```

## Solution for C++:

```

1  class Solution {
2  public:
3      int firstUniqChar(string s) {
4          int array[26] = {0};
5          for (char c : s) {
6              array[c - 'a']++;
7          }
8          for (int i = 0; i < s.length(); i++) {
9              if (array[s[i] - 'a'] == 1) {
10                 return i;
11             }
12         }
13         return -1;
14     }
15 };

```