014 Longest Common Prefix

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2018年3月28日 21:00
```

Question:

Write a function to find the longest common prefix string amongst an array of strings.

来自 < https://leetcode.com/problems/longest-common-prefix/description/>

编写一个函数来查找字符串数组中最长的公共前缀字符串。

Solution for Python3:

```
class Solution:
 2
        def longestCommonPrefix(self, strs):
 3
 4
            :type strs: List[str]
 5
            :rtype: str
 6
 7
            if not strs:
                return ''
8
9
            L = len(strs[0])
10
            for s in strs:
11
                L = min(len(s), L)
12
            for i in range(L):
13
                for j in range(len(strs)-1):
14
                     if strs[j][i] != strs[j + 1][i]:
15
                         return strs[j][:i]
16
            return strs[0][:L]
    class Solution:
 2
        def longestCommonPrefix(self, strs):
 3
 4
             :type strs: List[str]
 5
             :rtype: str
 6
             pre = ''
 7
 8
             i = 0
9
             while strs:
10
                 for j in range(len(strs)):
                     if (i \ge len(strs[j])) or (j \ge 0 and strs[j-1][i] != strs[j][i]):
11
12
                          return pre
13
                 pre += strs[0][i]
14
                 i += 1
15
             return pre
```

Solution for C++:

```
class Solution {
 2
    public:
         string longestCommonPrefix(vector<string>& strs) {
 3
             string pre = "";
 4
 5
             for (int i = 0; strs.size() > 0; pre += strs[0][i++]) {
                 for (int j = 0; j < strs.size(); j++) {</pre>
 6
 7
                     if (i >= strs[j].size() || (j > 0 && strs[j][i] != strs[j-1][i])) {
 8
                          return pre;
9
                     }
10
                 }
```

```
11 }
12 return pre;
13 }
14 };
```

Appendix:

罗纵向检查每个字符串的第一个字符,第二个字符,。。。, 最短字符串长度个字符。 边界条件: 空字符串数组,单个字符串数组。