345 Reverse Vowels of a String

2018年4月9日 20:21

Question:

Write a function that takes a string as input and reverse only the vowels of a string.

Example 1:

Given s = "hello", return "holle".

Example 2:

Given s = "leetcode", return "leotcede".

Note:

The vowels does not include the letter "y".

来自 < https://leetcode.com/problems/reverse-vowels-of-a-string/description/>

```
编写一个函数,以字符串作为输入,反转该字符串中的元音字母。
示例 1:
给定 s = "hello", 返回 "holle".
示例 2:
给定 s = "leetcode", 返回 "leotcede".
注意:
元音字母不包括 "y"。
```

Solution for Python3:

```
class Solution:
 1
 2
         def reverseVowels(self, s):
 3
 4
              :type s: str
 5
              :rtype: str
              \mathbf{H}_{-}\mathbf{H}_{-}\mathbf{H}_{-}
 6
              L = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U']
 7
              i, j = 0, len(s) - 1
 8
              LS = list(s)
9
              while i < j:
10
                 while i < j and s[i] not in L:
11
                      i += 1
12
13
                 while j > i and s[j] not in L:
                     j -= 1
14
                 if i < j:
15
                     LS[i], LS[j] = LS[j], LS[i]
16
                     i += 1
17
                     j -= 1
18
              return ''.join(LS)
19
```

Solution for C++:

```
class Solution {
 1
    public:
 2
         string reverseVowels(string s) {
 3
             int i = 0, j = s.length() - 1;
 4
             while (i < j) {
 5
 6
                 i = s.find_first_of("aeiouAEIOU", i);
                 j = s.find_first_of("aeiouAEIOU", j);
7
                 if (i < j) {</pre>
8
                     swap(s[i++], s[j--]);
9
                 }
10
11
             }
12
             return s;
13
        }
14
    };
```