11.07.2024, 16:50 LeetCode Submissions

345 Reverse Vowels of a String (link)

Description

Given a string s, reverse only all the vowels in the string and return it.

The vowels are 'a', 'e', 'i', 'o', and 'u', and they can appear in both lower and upper cases, more than once.

Example 1:

```
Input: s = "hello"
Output: "holle"
```

Example 2:

```
Input: s = "leetcode"
Output: "leotcede"
```

Constraints:

- 1 <= s.length <= $3 * 10^5$
- s consist of printable ASCII characters.

(scroll down for solution)

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Solution

Language: cpp

Status: Accepted

```
#include <string>
#include <unordered_set>
using namespace std;
class Solution {
public:
    string reverseVowels(string s) {
        unordered_set<char> vowels = {'a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U
        int left = 0, right = s.length() - 1;
        while (left < right) {</pre>
             // Перемещаем left к следующей гласной
             while (left < right && vowels.find(s[left]) == vowels.end()) {</pre>
             // Перемещаем right к предыдущей гласной
             while (left < right && vowels.find(s[right]) == vowels.end()) {</pre>
                 right--;
             // Обмениваем гласные символы
             if (left < right) {</pre>
                 swap(s[left], s[right]);
                 left++;
                 right--;
             }
        }
        return s;
    }
};
```

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