75 Days of Code

Day5 Problem no: 345

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"

Solution

For this problem ,

Step 1 :create a array of vowels

Step 2 : initialize two pointer start and end to loop

Step 3 : convert the string to array

Step 4 : loop until start is less than end

Step 5 : inside loop, again loop until it found a vowel , increase and decrease pointers accordingly

Step : swap now

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```typescript
21
22    function reverseVowels(s: string): string {
23        const vowels = new Set(['a','e','i','o','u','A','E','I','O','U']);
24        const chars = s.split('');
25
26        let left =0;
27        let right = s.length-1;
28
29        while(left<right){
30
31          while(left <right && !vowels.has(s[left])){
32            left++;
33          }
34           while(left <right && !vowels.has(s[right])){
35            right--;
36          }
37
38          if(left<right){
39            const temp = chars[left];
40            chars[left] = chars[right];
41            chars[right]= temp;
42            left++;
43            right--
44          }
45        }
46        return chars.join('');
47    };
48
49    let v =reverseVowels("hello");
50    console.log(v)
```

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