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STRINGS

Video-25

Leetcode
-2785

Medium

Easy

Sort Vowels

in a string...

Asked By:-

2785. Sort Vowels in a String

Hint

Medium

372

18



Companies

Given a **0-indexed** string `s`, **permute** `s` to get a new string `t` such that:

- All consonants remain in their original places. More formally, if there is an index `i` with $0 \leq i < s.length$ such that `s[i]` is a consonant, then `t[i] = s[i]`.
- The vowels must be sorted in the nondecreasing order of their **ASCII** values. More formally, for pairs of indices `i, j` with $0 \leq i < j < s.length$ such that `s[i]` and `s[j]` are vowels, then `t[i]` must not have a higher ASCII value than `t[j]`.

Return the resulting string.

The vowels are `'a'`, `'e'`, `'i'`, `'o'`, and `'u'`, and they can appear in lowercase or uppercase. Consonants comprise all letters that are not vowels.

Example :-

`S = "lEetC0de"`

Output = `"lEOtced"`

`EeOe`

`EOee` sort

`A - Z` $\Rightarrow 65 - 90$

`a - z` $\Rightarrow 97 - 122 \leftarrow$

Approach - 1

- (.) Separate string = sort. $\leftarrow \begin{matrix} S.C = O(n) \\ T.C = O(n \log n) \end{matrix}$
- (.) Put those vowels in asc. order.

Dry Run:-

$s = "biuAAc"$

output = "bAAiuc"

temp "iuAA"

sort = "AAiu" \leftarrow sorted

Approach-2

$S = "lEetcode"$

lEetcode

vowel = "AEIOUaeiou"

a	0
e	20
i	
o	
u	
A	0
E	0
I	0
O	0
U	0

① map <vowel, freq> in s

② $s \rightarrow i=0$ to $i < n$

↳ $conun \rightarrow i++$

↳ vowel :- Pick smallest
avail vowel.
for loop

$s = "biuAAc"$
↑ ↑ ↑ ↑ ↑ ↑ ↑
output = "bAAiuc" ✓

~~~~~  
"AEIOUaeiou"

|   |                  |
|---|------------------|
| a | 0                |
| e | 0                |
| i | <del>1</del> 0 ← |
| o | 0                |
| u | <del>1</del> 0 ← |
| A | <del>2</del> 0   |
| E | 0                |
| I | 0                |
| O | 0                |
| U | 0                |





