

Problem 2062: Count Vowel Substrings of a String

Problem Information

Difficulty: Easy

Acceptance Rate: 72.44%

Paid Only: No

Tags: Hash Table, String

Problem Description

A **substring** is a contiguous (non-empty) sequence of characters within a string.

A **vowel substring** is a substring that **only** consists of vowels ('a', 'e', 'i', 'o', and 'u') and has **all five** vowels present in it.

Given a string `word`, return _the number of**vowel substrings** in_ `word`.

Example 1:

Input: word = "aeiouu" **Output:** 2 **Explanation:** The vowel substrings of word are as follows (underlined): - "***_aeiou_u" - "***_aeiouu_"

Example 2:

Input: word = "unicornarihan" **Output:** 0 **Explanation:** Not all 5 vowels are present, so there are no vowel substrings.

Example 3:

Input: word = "cuaieuouac" **Output:** 7 **Explanation:** The vowel substrings of word are as follows (underlined): - "c**_uaieu** uac" - "c**_uaieuou** ac" - "c**_uaieuoua** c" - "cu**_aieuo** uac" - "cu**_aieuou** ac" - "cu**_aieuoua** c" - "cua**_ieuoua** c"

Constraints:

* `1 <= word.length <= 100` * `word` consists of lowercase English letters only.

Code Snippets

C++:

```
class Solution {  
public:  
    int countVowelSubstrings(string word) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int countVowelSubstrings(String word) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def countVowelSubstrings(self, word: str) -> int:
```