

# 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): - `"aeiouu"` - `"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): - `"cuaieuoac"` - `"cuaieuoac"` - `"cuaieuoa"` - `"cuaieuoac"` - `"cuaieuoa"` - `"cuaieuoa"` - `"cuaieuoua"`

**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:
```