Problem 2586: Count the Number of Vowel Strings in Range

Problem Information

Difficulty: Easy
Acceptance Rate: 73.95%
Paid Only: No
Tags: Array, String, Counting

Problem Description

You are given a **0-indexed** array of string `words` and two integers `left` and `right`.

A string is called a **vowel string** if it starts with a vowel character and ends with a vowel character where vowel characters are `'a'`, `'e'`, `'i'`, `'o'`, and `'u'`.

Return _the number of vowel strings_`words[i]`_where_`i` _belongs to the inclusive range_`[left, right]`.

Example 1:

Input: words = ["are","amy","u"], left = 0, right = 2 **Output:** 2 **Explanation:** - "are" is a vowel string because it starts with 'a' and ends with 'e'. - "amy" is not a vowel string because it does not end with a vowel. - "u" is a vowel string because it starts with 'u' and ends with 'u'. The number of vowel strings in the mentioned range is 2.

Example 2:

Input: words = ["hey","aeo","mu","ooo","artro"], left = 1, right = 4 **Output:** 3 **Explanation:** - "aeo" is a vowel string because it starts with 'a' and ends with 'o'. - "mu" is not a vowel string because it does not start with a vowel. - "ooo" is a vowel string because it starts with 'o' and ends with 'o'. - "artro" is a vowel string because it starts with 'a' and ends with 'o'. The number of vowel strings in the mentioned range is 3.

Constraints:

* `1 <= words.length <= 1000` * `1 <= words[i].length <= 10` * `words[i]` consists of only lowercase English letters. * `0 <= left <= right < words.length`

Code Snippets

C++:

```cpp
class Solution {
public:
    int vowelStrings(vector<string>& words, int left, int right) {


    }
};
```

Java:

```java
class Solution {
    public int vowelStrings(String[] words, int left, int right) {


    }
}
```

Python3:

```python
class Solution:
    def vowelStrings(self, words: List[str], left: int, right: int) -> int:
```