Problem 1704: Determine if String Halves Are Alike

Problem Information

Difficulty: Easy
Acceptance Rate: 78.71%
Paid Only: No
Tags: String, Counting

Problem Description

You are given a string `s` of even length. Split this string into two halves of equal lengths, and let `a` be the first half and `b` be the second half.

Two strings are **alike** if they have the same number of vowels (`'a'`, `'e'`, `'i'`, `'o'`, `'u'`, `'A'`, `'E'`, `'I'`, `'O'`, `'U'`). Notice that `s` contains uppercase and lowercase letters.

Return `true` _if_`a` _and_`b` _are**alike**_. Otherwise, return `false`.

Example 1:

Input: s = "book" **Output:** true **Explanation:** a = "b _o_ " and b = "_o_ k". a has 1 vowel and b has 1 vowel. Therefore, they are alike.

Example 2:

Input: s = "textbook" **Output:** false **Explanation:** a = "t _e_ xt" and b = "b _oo_ k". a has 1 vowel whereas b has 2. Therefore, they are not alike. Notice that the vowel o is counted twice.

Constraints:

* `2 <= s.length <= 1000` * `s.length` is even. * `s` consists of **uppercase and lowercase** letters.

Code Snippets

C++:

```cpp
class Solution {
public:
bool halvesAreAlike(string s) {


}
};
```

Java:

```java
class Solution {
public boolean halvesAreAlike(String s) {


}
}
```

Python3:

```python
class Solution:
def halvesAreAlike(self, s: str) -> bool:
```