Problem #1704: Determine if String Halves are Alike (Easy)

<https://leetcode.com/problems/determine-if-string-halves-are-alike/description/>

My Solution:

1. Let vowel\_set be the set of lowercase and uppercase vowels.
2. Let half\_size be length of s divided by 2 rounded down to integer
3. Initialize count to 0
4. For index I in range half\_size, if character at index I in s is in vowel\_set, then increment count. If character at index (half\_size + i) of s is in vowel\_set, then decrement count by 1.
5. Return True if count is 0 and False otherwise.

class Solution:

def halvesAreAlike(self, s: str) -> bool:

vowel\_set = set(list('aeiouAEIOU'))

half\_size = len(s)//2

count = 0

for i in range(half\_size):

if s[i] in vowel\_set:

count += 1

if s[half\_size + i] in vowel\_set:

count -= 1

return count == 0