

Problem 3392: Count Subarrays of Length Three With a Condition

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 61.58%

Paid Only: No

Tags: Array

Problem Description

Given an integer array `nums`, return the number of subarrays of length 3 such that the sum of the first and third numbers equals `_exactly_` half of the second number.

Example 1.

Input: `nums = [1,2,1,4,1]`

Output: 1

Explanation:

Only the subarray `[1,4,1]` contains exactly 3 elements where the sum of the first and third numbers equals half the middle number.

Example 2.

Input: `nums = [1,1,1]`

Output: 0

Explanation:

`[1,1,1]` is the only subarray of length 3. However, its first and third numbers do not add to half the middle number.

****Constraints:****

`*`3` <= nums.length <= 100` *`-100 <= nums[i] <= 100``

Code Snippets

C++:

```
class Solution {  
public:  
    int countSubarrays(vector<int>& nums) {  
  
    }  
};
```

Java:

```
class Solution {  
    public int countSubarrays(int[] nums) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def countSubarrays(self, nums: List[int]) -> int:
```