

Problem 3101: Count Alternating Subarrays

Problem Information

Difficulty: Medium

Acceptance Rate: 56.98%

Paid Only: No

Tags: Array, Math

Problem Description

You are given a binary array `nums``.

We call a subarray **alternating** if **no** two **adjacent** elements in the subarray have the **same** value.

Return `_` the number of alternating subarrays in `nums``.

Example 1.

Input: `nums = [0,1,1,1]`

Output: 5

Explanation:

The following subarrays are alternating: `[0]`, `[1]`, `[1]`, `[1]`, and `[0,1]`.

Example 2.

Input: `nums = [1,0,1,0]`

Output: 10

Explanation:

Every subarray of the array is alternating. There are 10 possible subarrays that we can choose.

****Constraints:****

* `1` <= nums.length <= 105 * `nums[i]` is either `0` or `1`.

Code Snippets

C++:

```
class Solution {
public:
    long long countAlternatingSubarrays(vector<int>& nums) {

    }
};
```

Java:

```
class Solution {
    public long countAlternatingSubarrays(int[] nums) {

    }
}
```

Python3:

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