Problem 525: Contiguous Array

Problem Information

Difficulty: Medium
Acceptance Rate: 50.14%
Paid Only: No
Tags: Array, Hash Table, Prefix Sum

Problem Description

Given a binary array `nums`, return _the maximum length of a contiguous subarray with an equal number of_`0` _and_`1`.

Example 1:

Input: nums = [0,1] **Output:** 2 **Explanation:** [0, 1] is the longest contiguous subarray with an equal number of 0 and 1.

Example 2:

Input: nums = [0,1,0] **Output:** 2 **Explanation:** [0, 1] (or [1, 0]) is a longest contiguous subarray with equal number of 0 and 1.

Example 3:

Input: nums = [0,1,1,1,1,1,0,0,0] **Output:** 6 **Explanation:** [1,1,1,0,0,0] is the longest contiguous subarray with equal number of 0 and 1.

Constraints:

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

Code Snippets

C++:

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

}
};
```

Java:

```
class Solution {
public int findMaxLength(int[] nums) {

}
}
```

Python3:

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