

525. Contiguous Array

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.