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.

**Constraints:**

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