Given a **0-indexed** integer array nums, find a **0-indexed** integer array answer where:

* answer.length == nums.length.
* answer[i] = |leftSum[i] - rightSum[i]|.

Where:

* leftSum[i] is the sum of elements to the left of the index i in the array nums. If there is no such element, leftSum[i] = 0.
* rightSum[i] is the sum of elements to the right of the index i in the array nums. If there is no such element, rightSum[i] = 0.

Return *the array* answer.

**Example 1:**

Input: nums = [10,4,8,3]  
Output: [15,1,11,22]  
Explanation: The array leftSum is [0,10,14,22] and the array rightSum is [15,11,3,0].  
The array answer is [|0 - 15|,|10 - 11|,|14 - 3|,|22 - 0|] = [15,1,11,22].

**Example 2:**

Input: nums = [1]  
Output: [0]  
Explanation: The array leftSum is [0] and the array rightSum is [0].  
The array answer is [|0 - 0|] = [0].

**Constraints:**

* 1 <= nums.length <= 1000
* 1 <= nums[i] <= 105