2574. Left and Right Sum Differences

Description

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] <= 10^5`