Problem 1480: Running Sum of 1d Array

Problem Information

Difficulty: Easy
Acceptance Rate: 86.86%
Paid Only: No
Tags: Array, Prefix Sum

Problem Description

Given an array `nums`. We define a running sum of an array as `runningSum[i] = sum(nums[0]…nums[i])`.

Return the running sum of `nums`.

Example 1:

Input: nums = [1,2,3,4] **Output:** [1,3,6,10] **Explanation:** Running sum is obtained as follows: [1, 1+2, 1+2+3, 1+2+3+4].

Example 2:

Input: nums = [1,1,1,1,1] **Output:** [1,2,3,4,5] **Explanation:** Running sum is obtained as follows: [1, 1+1, 1+1+1, 1+1+1+1, 1+1+1+1+1].

Example 3:

Input: nums = [3,1,2,10,1] **Output:** [3,4,6,16,17]

Constraints:

* `1 <= nums.length <= 1000` * `-10^6 <= nums[i] <= 10^6`

Code Snippets

C++:

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

}
};
```

Java:

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

}
}
```

Python3:

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