|  |  |
| --- | --- |
| **Running Sum in C++** | |
| #include <iostream>  #include <vector>  using namespace std;  vector<int> runningSum(vector<int>& nums) {  int n = nums.size();  vector<int> pre(n);  pre[0] = nums[0];  for (int i = 1; i < n; i++) {  pre[i] = pre[i - 1] + nums[i];  }  return pre;  }  int main() {  vector<int> arr = {1, 2, 3, 4};  vector<int> res = runningSum(arr);  for (int i = 0; i < res.size(); i++) {  cout << res[i] << endl;  }  return 0;  } | **Input:**  vector<int> arr = {1, 2, 3, 4};  **📋 Dry Run Table:**   | **i** | **nums[i]** | **pre[i - 1]** | **pre[i] = pre[i - 1] + nums[i]** | **pre vector after iteration** | | --- | --- | --- | --- | --- | | 0 | 1 | - | pre[0] = 1 | [1, \_, \_, \_] | | 1 | 2 | 1 | pre[1] = 1 + 2 = 3 | [1, 3, \_, \_] | | 2 | 3 | 3 | pre[2] = 3 + 3 = 6 | [1, 3, 6, \_] | | 3 | 4 | 6 | pre[3] = 6 + 4 = 10 | [1, 3, 6, 10] |   **✅ Final Output (printed one per line):**  1  3  6  10 |
| 1  3  6  10 | |