Running Sum in C++

```cpp
#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
```