

#15 Days of Coding Challenge

#Day 2

Product of array Except Self

#Leetcode 238

Solution:

```
class Solution {
public:
    vector<int> productExceptSelf(vector<int>& nums) {
        int n = nums.size();
        vector<int> result(n, 1);

        int left = 1;
        for (int i = 0; i < n; i++) {
            result[i] = left;
            left *= nums[i];
        }

        int right = 1;
        for (int i = n - 1; i >= 0; i--) {
            result[i] *= right;
            right *= nums[i];
        }

        return result;
    }
};
```

Time Complexity: $O(n)$

Space Complexity: $O(1)$