#15 days of dsa Coding Challenge

Product of array except self

#Leetcode 125

solution:

class Solution {

public:

vector<int> productExceptSelf(vector<int>& nums) {

int n = nums.size();

vector<int> result(n, 1);

int prefix = 1;

for (int i = 0; i < n; ++i) {

result[i] = prefix;

prefix \*= nums[i];

}

int suffix = 1;

for (int i = n - 1; i >= 0; --i) {

result[i] \*= suffix;

suffix \*= nums[i];

}

return result;

}

};

Time Complexity:O(n)

Space Complexity:O(n)