#15 days of Coding Challenge

#Day 2

Best time to buy and sell stock

#Leetcode 121

Solution:

class Solution {

public:

int maxProfit(vector<int>& prices) {

int buy = prices[0];

int profit = 0;

for (int i = 1; i < prices.size(); i++) {

if (prices[i] < buy) {

buy = prices[i];

} else if (prices[i] - buy > profit) {

profit = prices[i] - buy;

}

}

return profit;

}

};

Time Complexity:O(n)

Space Complexity:O(1)