

#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 buyPrice = prices[0];
        int profit = 0;

        for (int i = 1; i < prices.size(); i++) {
            if (buyPrice > prices[i]) {
                buyPrice = prices[i];
            }

            profit = max(profit, prices[i] - buyPrice);
        }

        return profit;
    }
};
```

Time Complexity: O(n)

Space Complexity: O(1)