

Best time to buy and sell stock

Friday, September 13, 2024

1:52 PM

My code:

```
class Solution {
    public int maxProfit(int[] prices) {
        int max=0;
        int n=prices.length;
        for(int i=0;i<n-1;i++){
            for(int j=i+1;j<n;j++){
                if(j>i && prices[j]-prices[i]>max){
                    max=prices[j]-prices[i];
                }
            }
        }
        return max;
    }
}
```

Time limit exceeded in my code

---> best code:

```
class Solution {
    public int maxProfit(int[] prices) {
        int buy = prices[0];
        int profit = 0;
        for (int i = 1; i < prices.length; i++) {
            if (prices[i] < buy) {
                buy = prices[i];
            } else if (prices[i] - buy > profit) {
                profit = prices[i] - buy;
            }
        }
        return profit;
    }
}
```

}

Only if sell is less than buy , buy value is changing,
If not only profit is changing

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock/solutions/4868897/most-optimized-kadane-s-algorithm-java-c-python-rust-javascript/>