

Best time to buy and sell stock

```
class Solution {
public:
    int maxProfit(vector<int>& prices) {
        int profit = 0;

        if (prices.size() == 1) return 0;

        int buy = 0;
        int sell = 1;

        while(sell < prices.size()) {
            int p = prices[sell] - prices[buy];
            if ( p > profit) profit = p;

            //printf("sell: %d buy: %d profit:%d \n",sell,buy,prices[sell] -
prices[buy]);

            if (prices[buy+1] < prices[buy]){
                buy++;
                if (buy == sell)sell++;
            }else sell++;

            if (sell >= prices.size()) break;

            if (prices[sell] < prices[buy]){
                buy = sell;
                sell++;
            }
        }

        return profit;
    }
}
```

```
};
```