

```
def maxProfit(price, n):  
    profit = [0]*n  
    max_price = price[n-1]  
    for i in range(n-2, 0, -1):  
        if price[i] > max_price:  
            max_price = price[i]  
            profit[i] = max(profit[i+1], max_price - price[i])  
            min_price = price[0]  
    for i in range(1, n):  
        if price[i] < min_price:  
            min_price = price[i]  
            profit[i] = max(profit[i-1], profit[i]+(price[i]-min_price))  
        result = profit[n-1]  
    return result  
price = [7,1,5,3,6,4]  
print ("Maximum profit is", maxProfit(price, len(price)))
```