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Stock Buy and Sell – Multiple Transaction Allowed □

Difficulty: Medium Accuracy: 13.43% Submissions: 144K+ Points: 4

The cost of stock on each day is given in an array **price**[]. Each day you may decide to either buy or sell the stock i at **price**[i], you can even buy and sell the stock on the same day. Find the **maximum profit** that you can get.

Note: A stock can only be sold if it has been bought previously and multiple stocks cannot be held on any given day.

Examples:

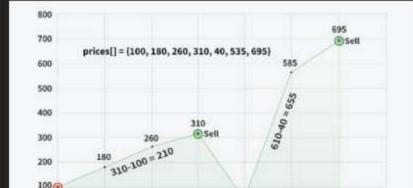
Input: prices[] = [100, 180, 260, 310, 40, 535, 695]

Output: 865

Explanation: Buy the stock on day 0 and sell it on day $3 \Rightarrow 310 - 100 =$

210. Buy the stock on day 4 and sell it on day $6 \Rightarrow 695 - 40 = 655$.

Maximum Profit = 210 + 655 = 865.



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                       Start Timer (P)
 Java (1.8) -
    // } Driver Code Ends
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39
    // User function Template for Java
    class Solution {
        public int maximumProfit(int prices[]) {
            int n = prices.length;
43
            if (n == 0)
44
45
               return 0:
            int maxProfit = 0:
46
           for(int i =1; i<n ; i++){
47
                if(prices[i] > prices[i-1]){
48
                   maxProfit += prices[i] - prices[i-1];
49
50
51
           return maxProfit;
52
53
54
```

4 0