

Best Time to Buy & Sell Stock

Input $\rightarrow [7, 1, 5, 3, 6, 4] \leftarrow \text{prices}$ Output = 5

Maxprofit = $\max(\text{current day sale price} - \text{min till now})$

Step 1 Loop from $i=1$ to prices.length

Step 2 Calculate min for each iteration till i

Step 3 Profit(current) = $\text{prices}[i] - \text{min}(\text{till } i)$

Step 4 $P_{\max} = \max(P_{\max}, \text{profit}(\text{Step 3}))$