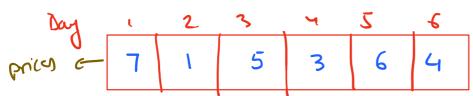
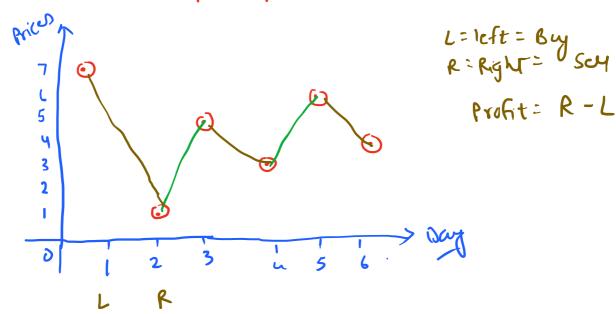
Solution

Saturday, 6 May 2023 12:52 PM





Approach!
i) letismake maxProft = 0 in the eterting > it's a global variable

i) We will initialize L & R = 0 and 1 respectively.

2) we will compute (R-L)

3) if (R-L) > 0 -> that means we have mady profit then, lote couldnot the new profit restrofit = R-L

max Profit = max (max brothet, new Brothet)

4) clsc! I when we have Locs [(R-L)<0]
ther,
update L to R

5) irrement R by I

6) Repeat steps (2) to (5) fill R reaches the end of the lift.

```
prices = [7,1,5,3,6,4]
def maximumProfit(prices):
    maxProfit = 0
    L = 0 \# L \rightarrow Buy
    R = 1 \# R \rightarrow Sell
    while R < len(prices):</pre>
        # when we are making profit
        if prices[R] > prices[L]:
             newProfit = prices[R] - prices[L]
             maxProfit = max(maxProfit, newProfit)
        # when we are making loss or no profit
        else:
            L = R
        R += 1
    return maxProfit
print(maximumProfit(prices))
```