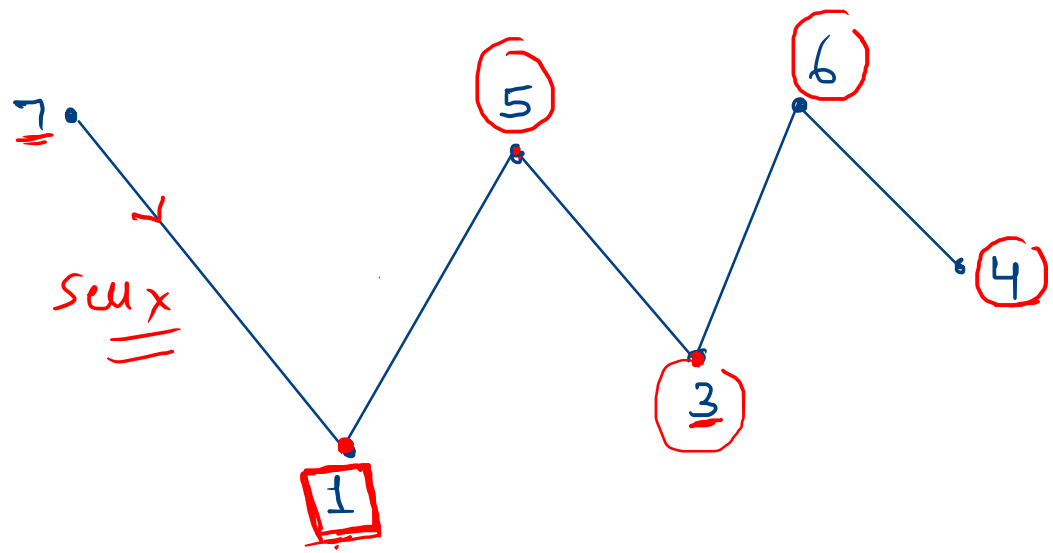
Best time to Buy and sell stock

Stock TATA

I/p: price[] = [7, 1, 5, 3, 6, 4]

O/p:



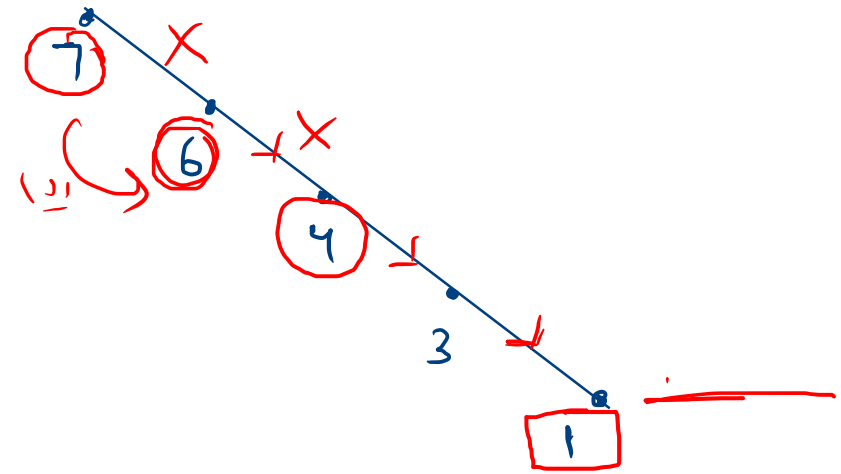
1 time Buy
1 time sell
}] Profit

Profit = 4 5

5

I/p: Price[] = [7, 6, 4, 3, 1]

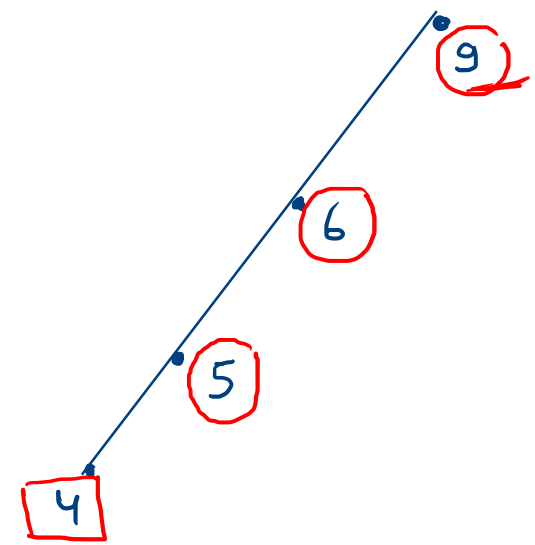
o/p: 0



I/p: Price[] = [4, 5, 6, 9]

o/p: 5

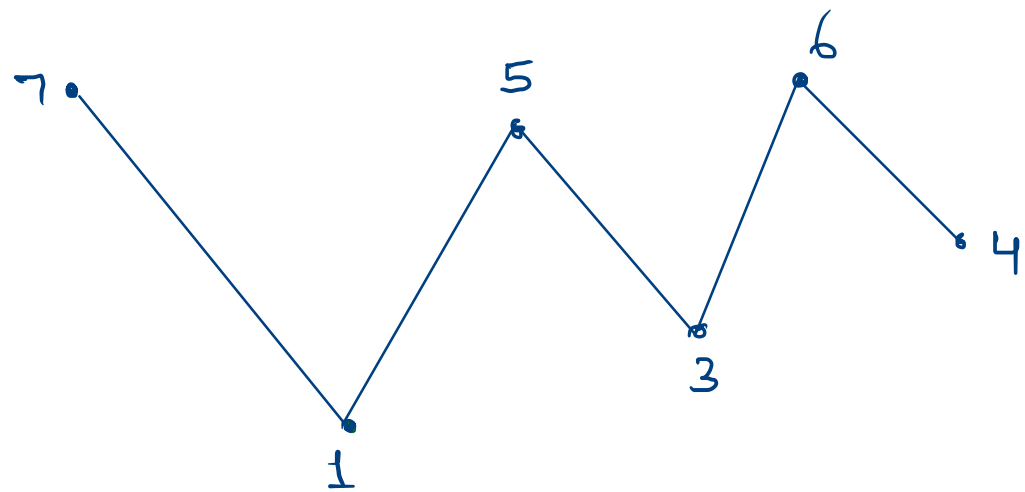
Profit = ✗ ✗ 5



Best time to Buy and sell stock

I/p: price[] = [7, 1, 5, 3, 6, 4]

O/p:

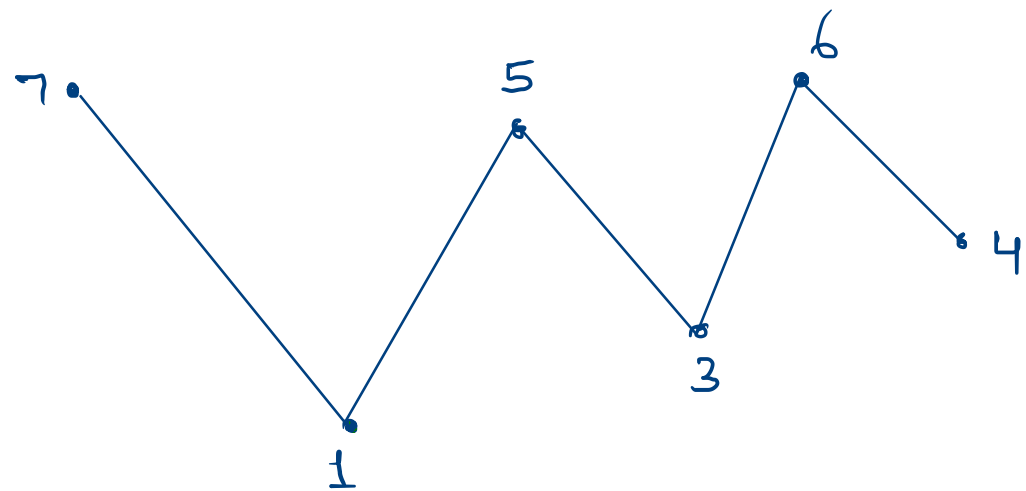


RECURSIVE SOLUTION

Best time to Buy and sell stock

I/p: price[] = [7, 1, 5, 3, 6, 4]

O/p:



1 time Buy
1 time sell

• MAXIMUM PROFIT •

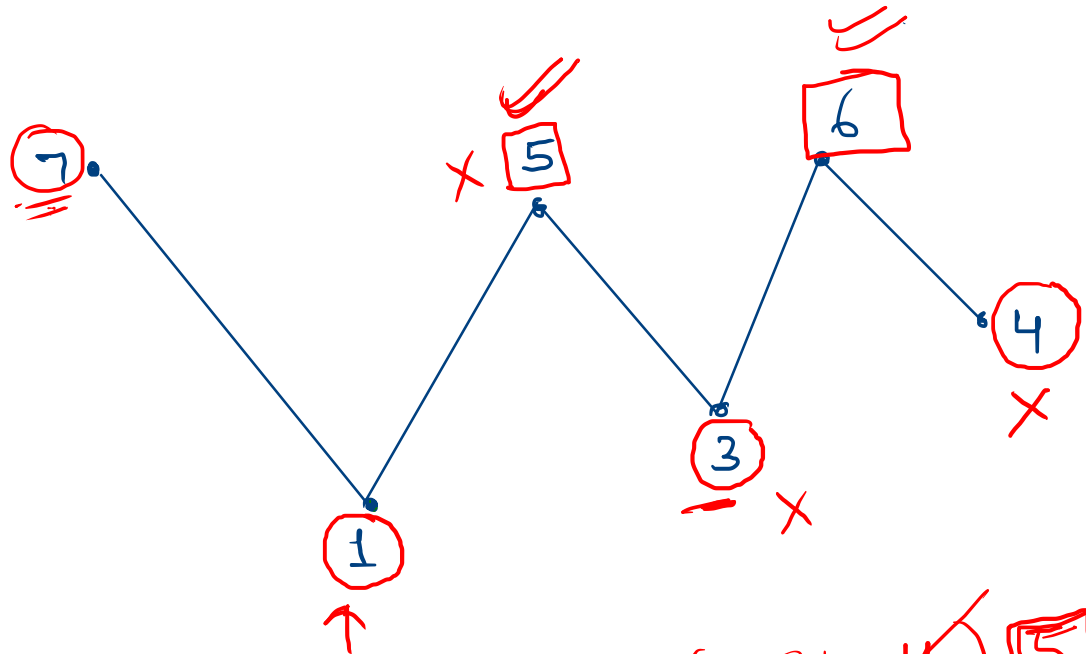
[Buy min.
  Sell max.]

Best time to Buy and sell stock

- Price ↓ min. price set
- Price ↑ sell max profit set

I/p: price[] = [7, 1, 5, 3, 6, 4]

O/p:



1 time Buy
1 time sell

• MAXIMUM PROFIT •

[Buy min.
Sell max.]

(profit = 4) 5

min_price = 7 1

I/p: arr[] = [7, 1, 5, 3, 6, 4]

O/p:

min_price = arr[0] = 7

max_profit = 0

i = 1

- if arr[i] < min_price
  - min_price = arr[i]
- else
  - max_profit = max(max_profit , arr[i] - min_price)