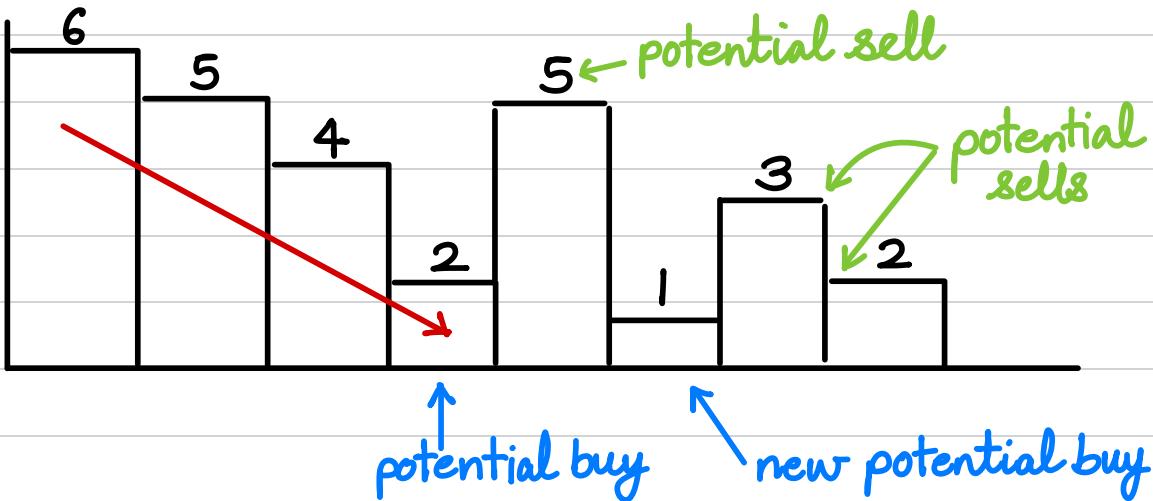


## 121 - Best Time to Buy and Sell Stock



As we move through the prices array, each time we encounter a value  $< \text{prices}[\text{buy}]$ , we set  $\text{buy}$  to that index, else if we see a value  $> \text{prices}[\text{buy}]$  we check whether  $\text{profit} > \text{max\_profit}$  and update  $\text{max\_profit}$  if so.

One array traversal, each item only visited once (no nested traversals)  $\therefore O(n)$  time.