Best time to buy and sell stocks.

prices [7, 1, 5, 3, 6, 4]
output: 5

1. Buy = 0 (first we want to buy a stock to sell it)

2. sell = 1 (next price can be sell prices)

maxprofit = 0 (store max profit after sell of stock)

2. if (prices.length == 1) {
return maxprofit;
}
it will return the maxprofit
if length == 1 [7]
↑
maxprofit

3. while (sell < prices.length)
because if sell prices and buy prices at point we don't get profit

4. if (prices[sell] > prices[BUY]){
int profit = prices[sell] - prices[profit]

Maxprofit = Math.max (maxprofit, profit)

By using math.max () method get high number

else →

5. assign sell pointer to Buy

Buy = sell

6. increment the sell

sell++.

7. return maxprofit;

Example:

[7, 1, 5, 3, 6, 4]

1. price.length = 6 false

2. Cwhile (1<6) i = 1

if (1>7) false

Buy = 1;

sell = 2;

~~sell~~ i = 2

(2<6)

(5>1) true.

profit = 5-1 = 4

maxprofit = (0, 4) = 4

4 sell = 3

i=3

(3<6) → index

prices (3>1) true

profit = 3-1 = 2

maxprofit = (4, 3) = 4

sell = 4;

i=4

(4<6)

(6>1) true

profit = 6-1 = 5

maxprofit (4, 5) = 5

sell = 5

i=5

(5<6)

(4>1) true

profit = 4-1 = 3

maxprofit = (5, 3) = 5

sell = 6

i=6

(6<6) false

return maxprofit; = 5