122. Best Time to Buy and Sell Stock II

Medium 5217 2171 Add to List Share

You are given an integer array `prices` where `prices[i]` is the price of a given stock on the `i^th` day.

On each day, you may decide to buy and/or sell the stock. You can only hold **at most one** share of the stock at any time. However, you can buy it then immediately sell it on the **same day**.

Find and return *the **maximum** profit you can achieve*.

Example 1:

```
Input: prices = [7,1,5,3,6,4]
Output: 7
Explanation: Buy on day 2 (price = 1) and sell on day 3
(price = 5), profit = 5-1 = 4.
Then buy on day 4 (price = 3) and sell on day 5 (price = 6),
profit = 6-3 = 3.
Total profit is 4 + 3 = 7.
```

Example 2:

```
Input: prices = [1,2,3,4,5]
Output: 4
Explanation: Buy on day 1 (price = 1) and sell on day 5
(price = 5), profit = 5-1 = 4.
Total profit is 4.
```

Example 3:

```
Input: prices = [7,6,4,3,1]
Output: 0
Explanation: There is no way to make a positive profit, so we
never buy the stock to achieve the maximum profit of 0.
```

Constraints:

- `1 <= prices.length <= 3 * 10^4`
- `0 <= prices[i] <= 10^4`

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```java
class Solution {
    public int maxProfit(int[] prices) {

    }
}
```