LeetCode   Explore^Day 2   Problems   Interview^New   Contest   Discuss   🛒 Store   🚀 September LeetCoding Challenge 2021 🚀   ☆ Premium

Description   Solution   Discuss (999+)   Submissions

```
Java  ▾        Autocomplete                         i  {}  ↺  ⊙  ⤢
1 ▾  class Solution {
2 ▾      public int maxProfit(int[] prices) {
3
4        }
5  }
```

121. Best Time to Buy and Sell Stock

Easy   👍 10485   👎 419   ♡ Add to List   ⬆ Share

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

You want to maximize your profit by choosing a **single day** to buy one stock and choosing a **different day in the future** to sell that stock.

Return *the maximum profit you can achieve from this transaction*. If you cannot achieve any profit, return `0`.

Example 1:

```
Input: prices = [7,1,5,3,6,4]
Output: 5
Explanation: Buy on day 2 (price = 1) and sell on day 5
(price = 6), profit = 6-1 = 5.
Note that buying on day 2 and selling on day 1 is not allowed
because you must buy before you sell.
```

Example 2:

```
Input: prices = [7,6,4,3,1]
Output: 0
Explanation: In this case, no transactions are done and the
max profit = 0.
```

Constraints:

- $1 <= prices.length <= 10^5$
- $0 <= prices[i] <= 10^4$

Accepted   1,507,618   Submissions   2,870,397

Seen this question in a real interview before?   Yes   No

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