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## 121. Best Time to Buy and Sell Stock

Easy Topics Companies

You are given an array prices where prices[i] is the price of a given stock on the  $i^{th}$  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<sup>5</sup>
- $0 \ll \text{prices}[i] \ll 10^4$

Seen this question in a real interview before? 1/4

Yes No

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