

여러 번의 거래로 낼 수 있는 최대 이익을 산출하라.

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.

1. 그리디

class Solution:

```
def maxProfit(self, prices: List[int]) -> int:
    result = 0
    for i in range(len(prices) - 1):
        if prices[i] < prices[i + 1]:
            result += prices[i + 1] - prices[i]
    return result
```

class Solution:

```
def maxProfit(self, prices: List[int]) -> int:
    return sum([max(prices[i + 1] - prices[i], 0) for i in range(len(prices) - 1)])
```

class Solution:

```
def maxProfit(self, prices: List[int]) -> int:
    return sum([prices[i + 1] - prices[i] for i in range(len(prices) - 1) if prices[i + 1] - prices[i] > 0])
```