



Best Time to Buy and Sell Stock 2

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References


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 <https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii>



파이썬 알고리즘 인터뷰

2021 세종도서 학술부문 선정작. 현업과 실무에 유용한 주요 알고리즘 이론을 깊숙이 이해하고, 파이썬의 핵심 기능과 문법까지 상세하게 이해할 수 있는 취업용 코딩 테스트를 위한 완벽 가이드다. 200여 개가 넘는...

 <https://www.aladin.co.kr/shop/wproduct.aspx?ItemId=245495826>



References

- [1. Extreme Value](#)
- [2. Greedy Algorithm](#)

1. Extreme Value

```
class Solution:
    def maxProfit(self, prices: List[int]) -> int:

        is_growing = False
        answer = 0

        for i in range(len(prices) - 1):
            if not is_growing and prices[i] < prices[i + 1]:
                answer += prices[i]
                is_growing = True
            elif is_growing and prices[i] > prices[i + 1]:
                answer += prices[i]
                is_growing = False

        return answer + (prices[-1] if is_growing else 0)
```

2. Greedy Algorithm

```
class Solution:
    def maxProfit(self, prices: List[int]) -> int:

        answer = 0

        for i in range(len(prices) - 1):
            if prices[i] < prices[i + 1]:
                answer += prices[i + 1] - prices[i]

        return answer
```