◀ **Back to Chapter**

☰ | ❮ Previous   Next ❯   ⤢

⭕ **Week 1: April 1st–April 7th** ▼

Problems appear at midnight, Pacific

🖹 Best Time to Buy and Sell Stock II

Say you have an array for which the ith element is the price of a given stock on day i.

Design an algorithm to find the maximum profit. You may complete as many transactions as you like (i.e., buy one and sell one share of the stock multiple times).

Note: You may not engage in multiple transactions at the same time (i.e., you must sell the stock before you buy again).

Example 1:

```
Input: [7,1,5,3,6,4]
Output: 7
Explanation: Buy on day 2 (price
             Then buy on day 4 (p
```

Example 2:

```
Input: [1,2,3,4,5]
Output: 4
Explanation: Buy on day 1 (price
             Note that you cannot
             engaging multiple tr
```

Example 3:

Input: [7,6,4,3,1]
Output: 0
Explanation: In this case, no trai