

Difficulty:  Category:  Successful Submissions: 10,005+

## Max Profit With K Transactions

You're given an array of positive integers representing the prices of a single stock on various days (each index in the array represents a different day). You're also given an integer `k`, which represents the number of transactions you're allowed to make. One transaction consists of buying the stock on a given day and selling it on another, later day.

Write a function that returns the maximum profit that you can make by buying and selling the stock, given `k` transactions.

Note that you can only hold one share of the stock at a time; in other words, you can't buy more than one share of the stock on any given day, and you can't buy a share of the stock if you're still holding another share. Also, you don't need to use all `k` transactions that you're allowed.

### Sample Input

```
prices = [5, 11, 3, 50, 60, 90]
k = 2
```

### Sample Output

```
93 // Buy: 5, Sell: 11; Buy: 3, Sell: 90
```

### Hints

Hint 1 

Hint 2 

Hint 3 

Optimal Space & Time Complexity 