

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(nk) time | O(n) space
5     func maxProfitWithKTransactions(_ prices: [Int], _ k: Int) -> Int {
6         if prices.count == 0 {
7             return 0
8         }
9
10        var evenProfits = Array(repeating: 0, count: prices.count)
11        var oddProfits = Array(repeating: 0, count: prices.count)
12
13        for transaction in stride(from: 1, through: k, by: 1) {
14            var maxProfitThusFar = Int.min
15
16            if transaction % 2 == 0 {
17                secondSolutionHelper(&evenProfits, &oddProfits, &maxPr
18            } else {
19                secondSolutionHelper(&oddProfits, &evenProfits, &maxPr
20            }
21        }
22
23        if k % 2 == 0 {
24            return evenProfits[prices.count - 1]
25        } else {
26            return oddProfits[prices.count - 1]
27        }
28    }
29
30    func secondSolutionHelper(_ currentProfits: inout [Int], _ previou
31        for day in stride(from: 1, to: prices.count, by: 1) {
32            maxProfitThusFar = max(maxProfitThusFar, previousProfits[d
33            currentProfits[day] = max(currentProfits[day - 1], maxProf
```

Solution 1

Solution 2

Solution 3

```
1 class Program {
2     func maxProfitWithKTransactions(_ prices: [Int], _ k: Int) -> Int {
3         // Write your code here.
4         return -1
5     }
6 }
7
```

Our Tests

Custom Output

Submit Code

```
1 class Program {
2     func maxProfitWithKTransactions(_ prices: [Int], _ k: Int) -> Int {
3         // Write your code here.
4         return -1
5     }
6 }
7
```

```
10         self.eventQueue.put(self.program.waitForInputFromUser())
11     }
12     return "Test Case 47:  $\epsilon \leq 0$  Success" + self.id
13 }
14 def eventQueue() def program.waitForInputFromUser()
15 }
16 return "Test Case 47:  $\epsilon \leq 0$  Success" + self.id
17 }
18 def eventQueue() def program.waitForInputFromUser()
19 }
20 return "Test Case 47:  $\epsilon \leq 0$  Success" + self.id
21 }
22 def eventQueue() def program.waitForInputFromUser()
23 }
24 return "Test Case 47:  $\epsilon \leq 0$  Success" + self.id
25 }
```

Run or submit code when you're ready.