AlgoExpert   Quad Layout   Python   14px   Sublime   Monokai   00:00:0

Our Solution(s)   Run Code

Solution 1   Solution 2

```python
# Copyright © 2020 AlgoExpert, LLC. All rights reserved.

# O(nk) time | O(n) space
def maxProfitWithKTransactions(prices, k):
    if not len(prices):
        return 0
    evenProfits = [0 for d in prices]
    oddProfits = [0 for d in prices]
    for t in range(1, k + 1):
        maxThusFar = float("-inf")
        if t % 2 == 1:
            currentProfits = oddProfits
            previousProfits = evenProfits
        else:
            currentProfits = evenProfits
            previousProfits = oddProfits
        for d in range(1, len(prices)):
            maxThusFar = max(maxThusFar, previousProfits[d - 1] - pric
            currentProfits[d] = max(currentProfits[d - 1], maxThusFar
    return evenProfits[-1] if k % 2 == 0 else oddProfits[-1]

```

Your Solutions   Run Code

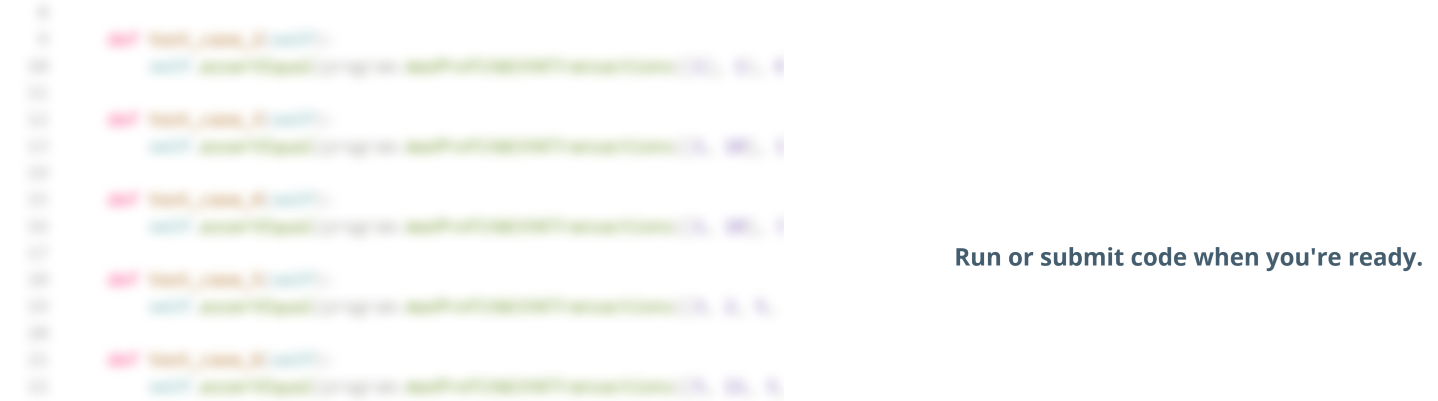
Solution 1   Solution 2   Solution 3

```python
def maxProfitWithKTransactions(prices, k):
    # Write your code here.
    pass

```

Our Tests

```python
import program
import unittest


class TestProgram(unittest.TestCase):
    def test_case_1(self):
        self.assertEqual(program.maxProfitWithKTransactions([], 1), 0
```

Custom Output   Submit Code



```
    def test_case_[illegible](self):
        self.assertEqual(program.maxProfitWithKTransactions([[illegible]

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```

Run or submit code when you're ready.