AlgoExpert Quad Layout Go 12px Sublime Monokai 00:00:00

Run Code

Solution 1 Solution 2

Prompt

35

Scratchpad

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 package main
 5 import "math"
 7 // O(nk) time | O(nk) space
8 func MaxProfitWithKTransactions(prices []int, k int) int {
      if len(prices) == 0 {
10
         return 0
11
       profits := make([][]int, k+1)
12
       for i := range profits {
   profits[i] = make([]int, len(prices))
13
14
15
16
       for t := 1; t < k+1; t++ {
17
         maxThusFar := math.MinInt32
         for d := 1; d < len(prices); d++ {</pre>
18
19
          maxThusFar = max(maxThusFar, profits[t-1][d-1]-prices[d-1])
20
21
           profits[t][d] = max(profits[t][d-1], maxThusFar+prices[d])
22
23
       return profits[k][len(prices)-1]
24 }
25
26 func max(arg int, rest ...int) int {
27
      curr := arg
28
      for _, num := range rest {
  if curr < num {</pre>
29
30
          curr = num
31
32
33
      return curr
34 }
```

Our Solution(s) Video Explanation