AlgoExpert Quad Layout C# 12px Sublime Monokai 00:00:00

Run Code

Solution 1 Solution 2

Scratchpad

Prompt

```
_{\rm 1} \, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
  3 using System;
  4 public class Program {
       // O(nk) time | O(nk) space
       public static int MaxProfitWithKTransactions(int[] prices, int k) {
         if (prices.Length == 0) {
  return 0;
          int[,] profits = new int[k + 1,prices.Length];
10
          for (int t = 1; t < k + 1; t++) \{
11
           int maxThusFar = Int32.MinValue;
12
13
            for (int d = 1; d <prices.Length; d++) {</pre>
14
15
              maxThusFar =
              Math.Max(maxThusFar, profits[t - 1,d - 1] - prices[d - 1]);
profits[t,d] = Math.Max(profits[t,d - 1], maxThusFar + prices[d]);
16
17
18
          return profits[k,prices.Length - 1];
19
20
21 }
22
```

Our Solution(s) Video Explanation