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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

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Solution 1 Solution 2
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_{\rm 1} \, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 // O(nk) time | O(nk) space
    function maxProfitWithKTransactions(prices, k) {
      if (!prices.length) return 0;
       const profits = [];
       for (let t = 0; t < k + 1; t++) {
  const row = new Array(prices.length).fill(0);</pre>
 9
         profits.push(row);
10
11
       for (let t = 1; t < k + 1; t++) {
12
         let maxThusFar = -Infinity;
         for (let d = 1; d < prices.length; d++) {
   maxThusFar = Math.max(maxThusFar, profits[t - 1][d - 1] - prices[d - 1]);</pre>
13
14
15
           profits[t][d] = Math.max(profits[t][d - 1], maxThusFar + prices[d]);
16
17
18
       return profits[k][prices.length - 1];
19 }
20
21 exports.maxProfitWithKTransactions = maxProfitWithKTransactions;
22
```