00:00:00 **Quad Layout** C++ 12px Sublime Monokai AlgoExpert

Our Solution(s) Video Explanation Run Code

Solution 1 Solution 2

Scratchpad

Prompt

```
_{\rm 1} \, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
  3 #include <vector>
  4 #include <climits>
  5 using namespace std;
 7 // O(nk) time | O(nk) space
8 int maxProfitWithKTransactions(vector<int> prices, int k) {
       if (prices.size() == 0) {
10
          return 0;
11
12
       \verb|vector<|int>> profits(k + 1, vector<|int>(prices.size(), 0));|\\
       for (int t = 1; t < k + 1; t++) {
13
14
15
          int maxThusFar = INT_MIN;
          for (int d = 1; d < prices.size(); d++) {</pre>
            maxThusFar = max(maxThusFar, profits[t - 1][d - 1] - prices[d - 1]);
profits[t][d] = max(profits[t][d - 1], maxThusFar + prices[d]);
16
17
18
19
20
21 }
22
       return profits[k][prices.size() - 1];
```