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Question: _

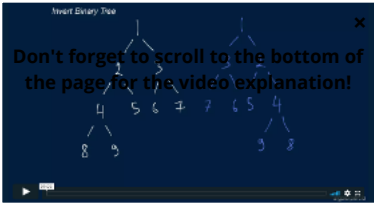
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Solution #1 Solution #2

```
// Copyright © 2019 AlgoExpert, LLC. All rights reserved.

#include <vector>
#include <climits>
using namespace std;

// O(nk) time | O(nk) space
int maxProfitWithKTransactions(vector<int> prices, int k) {
    if (prices.size() == 0) {
        return 0;
    }
    vector<vector<int>> profits(k + 1, vector<int>(prices.size(), 0));
    for (int t = 1; t < k + 1; t++) {
        int maxThusFar = INT_MIN;
        for (int d = 1; d < prices.size(); d++) {
            maxThusFar = max(maxThusFar, profits[t - 1][d - 1] - prices[d - 1]);
            profits[t][d] = max(profits[t][d - 1], maxThusFar + prices[d]);
        }
    }
    return profits[k][prices.size() - 1];
}
```



Video Explanation

[Go to Code Walkthrough](#)

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