11/14/2019 77 Questions

Questions List (/questions) Java JavaScript Python Theme: algoexpert (/questions) Question: Input: Your Solution **Our Solution** Run Code Solution #1 Solution #2 // Copyright © 2019 AlgoExpert, LLC. All rights reserved. #include <vector> #include <climits> using namespace std; // O(nk) time | O(n) space int maxProfitWithKTransactions(vector<int> prices, int k) { if (prices.size() == 0) { return 0; int \*evenProfits = new int[prices.size()]; int \*oddProfits = new int[prices.size()]; for (int i = 0; i < prices.size(); i++) {</pre> evenProfits[i] = 0; oddProfits[i] = 0; for (int t = 1; t < k + 1; t++)  ${}$ int maxThusFar = INT\_MIN; int \*currentProfits = new int[prices.size()]; int \*previousProfits = new int[prices.size()]; if (t % 2 == 1) { currentProfits = oddProfits; previousProfits = evenProfits; currentProfits = evenProfits; previousProfits = oddProfits; } for (int d = 1; d < prices.size(); d++) {</pre> maxThusFar = max(maxThusFar, previousProfits[d - 1] - prices[d - 1]); currentProfits[d] = max(currentProfits[d - 1], maxThusFar + prices[d]); }

return k % 2 == 0 ? evenProfits[prices.size() - 1]

: oddProfits[prices.size() - 1];

}

}

11/14/2019 77 Questions



## Video Explanation

Go to Conceptual Overview

Go to Code Walkthrough

Questions List (/questions)

Copyright © 2019 AlgoExpert, LLC. All rights reserved.