Algorithmic Complexity

Maximize Stock Trading Profit

Intermediate - java

Given the daily values of a stock, create a function called `maxProfitDays()` that, given an array of integers, will return the index value of the two elements that represent the day on which one should have bought a share and the day on which one should have sold a share based on the max profit.

An array of integers will represent the stock price at the beginning or “opening bell” of each day for a week. You are required to buy and sell only once. You also must buy a stock before selling it.

For example, given the array `{7, 11, 60, 25, 150, 75, 31, 120}`, you can assume that index 0 represents day 0 and index 7 represents day 7. In this case, purchasing on day 1 and selling on day 4 would yield the most profit. If we were to call `maxProfitDays()` with an array containing the values `{17, 11, 60, 25, 150, 75, 31, 120}` as the argument, the function would return `{1, 4}`.

This challenge was reported to have been asked at interviews with Facebook, as well as right here at Codecademy! If you’ve covered the material in Pass the Technical Interview with Java or an equivalent, you should be able to solve this challenge. If you have trouble, try refreshing your knowledge there first.