Best Time to Buy and Sell Stock II

Submission Detail

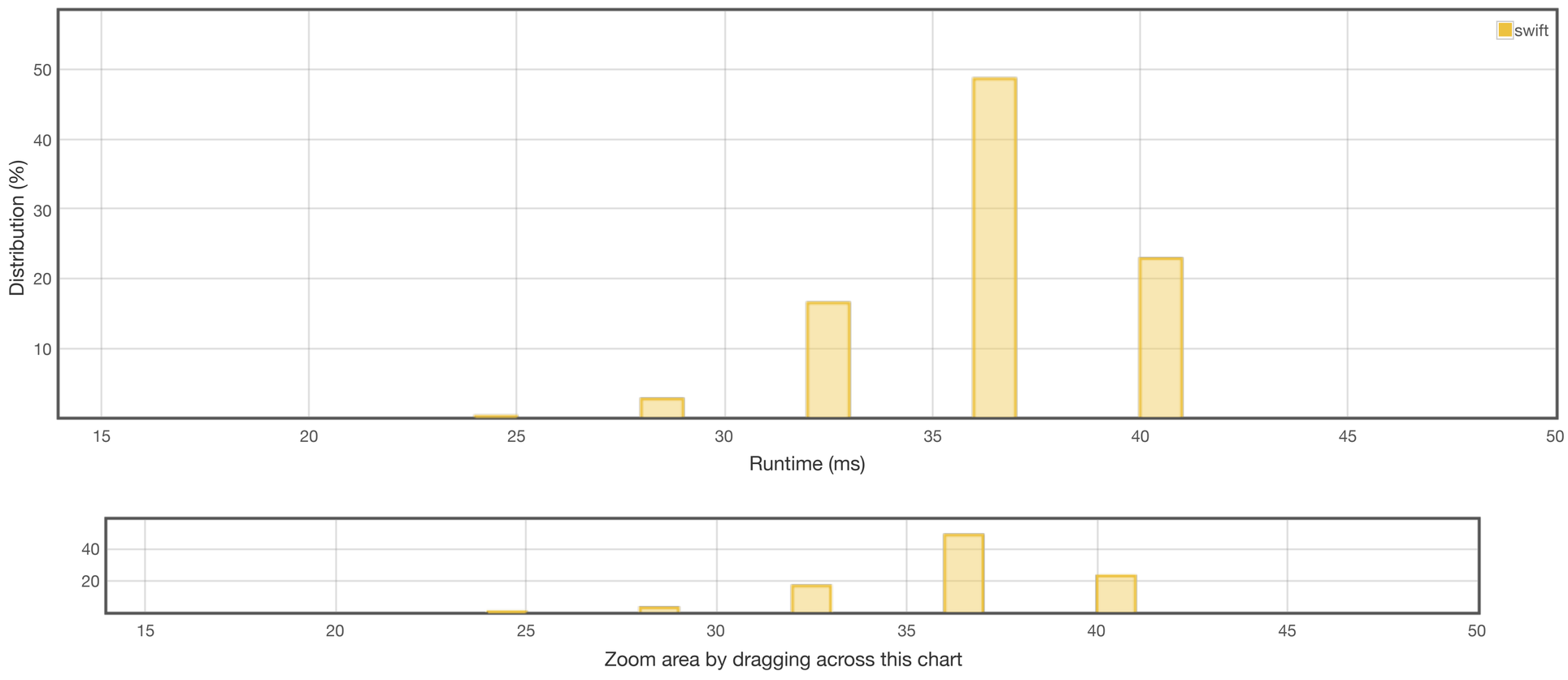
201 / 201 test cases passed.

Runtime: **72 ms**
Memory Usage: **21.4 MB**

Status: Accepted

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution

Sorry. We do not have enough accepted submissions to show distribution chart.

Invite friends to challenge **Best Time to Buy and Sell Stock II**

27

Submitted Code: 0 minutes ago

Language: swift

Edit Code

```swift
func myPrint(_ arg: Any) {
    //print(arg)
}

class Solution {
    func priceGoesDown(currentPrice: Int, lastPrice: Int) -> Bool {
        return currentPrice < lastPrice
    }

    func maxProfit(_ prices: [Int]) -> Int {
        guard prices.count > 0 else { return 0 }

        var i = 0
        var profit = 0
        var isLookingToBuy = true
        var buyingPrice = 0
        var lastPrice = -1

        while i < prices.count {
            let currentPrice = prices[i]
            myPrint("i: \(i), currentPrice: \(currentPrice), lastPrice: \(lastPrice), isLookingToBuy: \(isLookingToBuy), buyingPrice:\(buyingPrice)")

            guard lastPrice != -1 else {
                lastPrice = prices[i]
                i += 1
                continue
            }

            if priceGoesDown(currentPrice: currentPrice, lastPrice: lastPrice) {
                if isLookingToBuy {
                    // buy on current day
                    myPrint("buy at \(currentPrice)")
                    buyingPrice = currentPrice
                    isLookingToBuy = false
                } else {
                    // sell on last day
                    myPrint("sell at \(lastPrice) with profit \(lastPrice - buyingPrice)")
                    profit += lastPrice - buyingPrice
                    buyingPrice = 0
                    isLookingToBuy = true
                    i -= 1 // reevaluate current day
                }
            } else {
                if isLookingToBuy {
                    // buy on last day
                    myPrint("buy at \(lastPrice)")
                    buyingPrice = lastPrice
                    isLookingToBuy = false
                    i -= 1 // reevaluate current day
                } else if i == prices.count - 1 && buyingPrice < currentPrice {
                    // sell on current day if there are no more days registered
                    myPrint("sell at \(currentPrice) with profit \(currentPrice - buyingPrice)")
                    profit += currentPrice - buyingPrice
                    buyingPrice = 0
                    isLookingToBuy = true
                }
            }

            lastPrice = currentPrice
            i += 1
        }

        return profit
    }
}
```

Back to problem