**QUESTION**

Have the function StockPicker(arr) take the array of numbers stored in arr which will contain integers that represent the amount in dollars that a single stock is worth and return the maximum profit that could have been made by buying stock on day x and selling stock on day y where y > x.

For example:

- if arr is [44, 30, 24, 32, 35, 30, 40, 38,15] then your program should return 16 because at index 2 the stock was worth $24 and at index 6 the stock was then worth $40, so if you bought the stock at 24 and sold it at 40, you would have made a profit of $16, which is the maximum profit that could have been made with this list of stock prices.

- if there is no profit that could have been made with the stock prices, then your program should return -1.

- For example arr is [10, 9, 8, 2]then your program should return -1.

- Examples:Input: [10, 12, 4, 5, 9]Output: 5

**ANSWER**

let arr = [44, 30, 24, 32, 35, 30, 40, 38,15]

function ArrayChallenge(arr) {

let profit = []

let start = -1;

for (let i = 0; i < arr.length; i++) {

if (arr[i] < arr[i + 1]) {

arr = arr.slice(i, arr.length)

start++;

for (let i = 1; i < arr.length; i++) {

profit.push(arr[i] - arr[0])

// profit.push(Math.max(...arr) - Math.min(...arr))

}

}

}

return start == -1 ? -1 : Math.max(...profit);

}

console.log(ArrayChallenge(arr));