

Maximizing Profit in Stock Trading

```
let prices = [7,1,5,3,6,4,8,9,18]
let prices2 = [2,1,2,1,0,1,2]
let prices3 = [1,2,4,2,5,7,2,4,9,0,9]

function buySell(prices){
  if (prices.length === 0) {
    return 0;
  }

  let i = 0;
  let j = 1;
  let maxDifference = 0;
  let minPrice = prices[0];
  for(let i = 0; i<prices.length; i++){
    if(prices[i]<minPrice){
      minPrice = prices[i];
    }else if(prices[i]-minPrice>maxDifference){
      maxDifference = prices[i]-minPrice
    }
  }

  return maxDifference
}

console.log(buySell(prices))
console.log(buySell(prices2))
console.log(buySell(prices3))
```