

Task 2

DATE:7/01/24

MISSING NUMBER

```
class Solution {  
    public:  
    int missingNumber(vector<int>& nums){  
        int sumArr = 0;  
        for(int i=0;i<nums.size();i++)sumArr+=nums[i];  
        int n=nums.size();  
        int expectedSum = (n*(n+1))/2;  
        int reqNum = expectedSum - sumArr;  
        return reqNum;  
    }  
};
```

BEST TIME TO BUY & SELL

```
class Solution {  
    public int maxProfit(int[] prices) {  
        int minprice = Integer.MAX_VALUE;  
        int maxprofit = 0;  
        for (int i = 0; i < prices.length; i++){  
            if (prices[i] < minprice)  
                minprice = prices[i];  
            else if (prices[i]- minprice > maxprofit)  
                maxprofit = prices[i] - minprices;  
        }  
        return maxprofit;  
    }  
}
```

