FIND THE CLOSEST TO THE AVERAGE

```java
import java.util.*;

public class Solution {

    public static void main(String args[] ){

        Scanner myScanner = new Scanner(System.in);
        int number = myScanner.nextInt();
        int[] arr =  new int[number];
        double sum=0;

        for(int x = 0; x < arr.length; x++){

            arr[x] = myScanner.nextInt();
            sum = arr[x] + sum;

        }
        double average = (sum/arr.length);
        double closest= Math.abs(arr[0]-average);
        int index = 0;

        for (int j=0; j<arr.length; j++){
            if (Math.abs(arr[j]-average)< closest){
                closest = Math.abs(arr[j]-average);
                index = j;
            }
        }
        System.out.println(arr[index]);
    }
}
```

FIND THE MODE

```java
import java.util.*;

public class Solution {
    public static void main(String args[] ){
        Scanner myscanner = new Scanner(System.in);
        int number = myscanner.nextInt();
        int[] data = new int[number];
        for(int i=0;i<number;i++){
            data[i]=myscanner.nextInt();
        }
        int record=0;
        int recordnumber=0;
        for(int i=0;i<number;i++){
            int count=0;
            for(int j=0;j<number;j++){
                if(data[i]==data[j])
                    count++;
            }
```

```java
            if(count>record){
                record=count;
                recordnumber=data[i];
            }
        }
        System.out.println(recordnumber);
    }
}
```