

WEEK 2:

COUNT THE OCCURENCE:

```
import java.util.Scanner;

class Array {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int n = sc.nextInt();

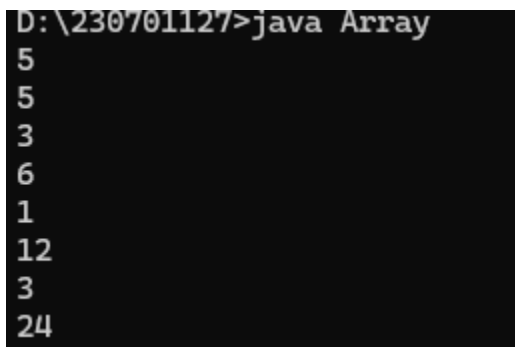
        int[] nums = new int[n];
        for (int i = 0; i < n; i++) {
            nums[i] = sc.nextInt();
        }

        int original = sc.nextInt();

        boolean found;

        do {
            found = false;
            for (int i = 0; i < n; i++) {
                if (nums[i] == original) {
                    original *= 2; // Double the value of original
                    found = true;
                    break;
                }
            }
        } while (!found);

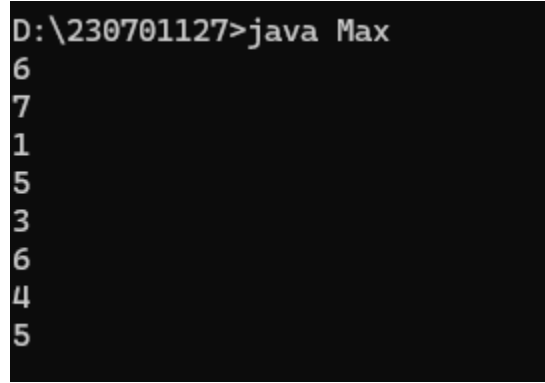
        System.out.println(original);
    }
}
```



```
D:\230701127>java Array
5
5
3
6
1
12
3
24
```

INVENTORY MANAGEMENT:

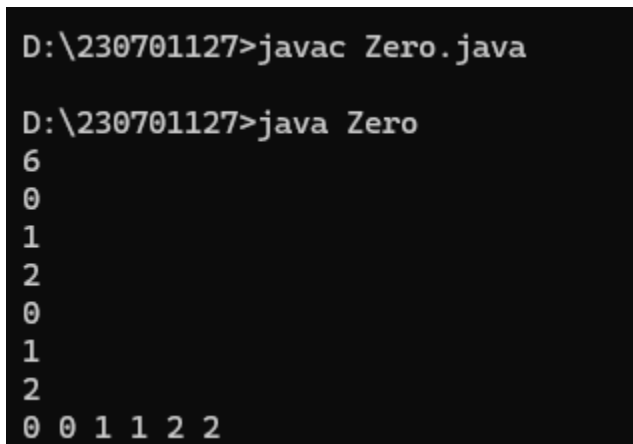
```
import java.util.*;
public class Max{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int[] arr=new int[n];
        for(int i=0;i<n;i++){
            arr[i]=sc.nextInt();
        }
        int minPrice=arr[0];
        int maxProfit=0;
        for(int i=1;i<n;i++){
            if(arr[i]<minPrice){
                minPrice=arr[i];
            }
            else{
                int profit=arr[i]-minPrice;
                if(profit>maxProfit){
                    maxProfit=profit;
                }
            }
        }
        System.out.println(maxProfit);
    }
}
```



```
D:\230701127>java Max
6
7
1
5
3
6
4
5
```

SORT AN ARRAY OF 1's,0's and 2's:

```
import java.util.*;
public class Zero{
public static void main(String[] args){
Scanner sc=new Scanner(System.in);
int n=sc.nextInt();
int[] arr= new int[n];
for(int i=0;i<n;i++){
arr[i]=sc.nextInt();
}
Arrays.sort(arr);
for(int i:arr) System.out.printf("%d ",i);
}
}
```



```
D:\230701127>javac Zero.java

D:\230701127>java Zero
6
0
1
2
0
1
2
0 0 1 1 2 2
```

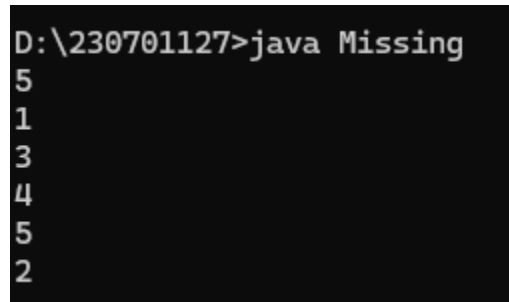
FIND THE MISSING NUMBER PROGRAM:

```
import java.util.Scanner;
class Missing {
public static void main(String[] args) {
Scanner s = new Scanner(System.in);
int n = s.nextInt();
int arr[] = new int[n];
for (int i = 0; i < n-1; i++) {
arr[i] = s.nextInt();
}
int sum=0;
for (int i = 0; i < n; i++) {
```

```

        sum=sum+arr[i];
    }
    int m=(n*(n+1))/2;
    int rem=m-sum;
    System.out.println(rem);
}
}

```



```

D:\230701127>java Missing
5
1
3
4
5
2

```

MOVE ALL ZERO'S TO THE END OF THE ARRAY:

```

import java.util.Scanner;

class Zeros1 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int arr[] = new int[n];
        int e;
        for (int i = 0; i < n; i++) {
            e = sc.nextInt();
            arr[i] = e;
        }

        int t = 0;
        int s = 0;
        int temp;
        for (int i = 0; i < n; i++) {
            if (arr[i] != t) {
                temp = arr[i];
            }
        }
    }
}

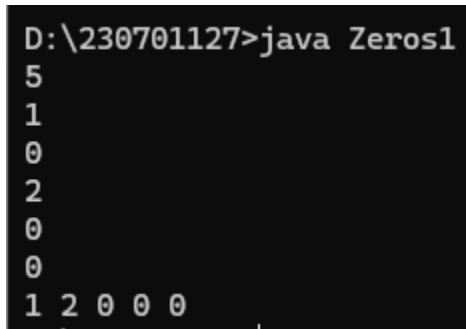
```

```

        arr[i] = arr[s];
        arr[s] = temp;
        s++;
    }
}

for (int i = 0; i < n; i++) {
    System.out.print(arr[i] + " ");
}
}

```



A screenshot of a Windows command prompt window. The title bar shows the path 'D:\230701127'. The command prompt shows the command 'java Zeros1' being executed. The output is displayed on the following lines:

```

5
1
0
2
0
0
1 2 0 0 0

```