

<https://course.acciojob.com/idle?question=bef05518-ca74-4dc9-b0c7-b3a3a0c4475d>

● EASY

● Max Score: 30 Points

## Find The Repeating And Missing Number

You are given an array `nums` consisting of first  $n$  positive integers. But from the  $n$  integers, one of the integers occurs twice in the array, and one of the integers is missing. You need to determine the repeating and the missing integer.

### Input Format

The first line contains an integer  $n$  denoting the number of elements present in the array.

The second line contains  $n$  space-separated integers denoting the elements present in the array.

### Output Format

Print the two space-separated integers denoting the repeating and the missing numbers, in the same order.

### Example 1

Input

```
5
1 4 2 5 2
```

Output

```
2 3
```

Explanation

We have, array: [1, 4, 2, 5, 2] and N = 5. In the given array '2' occurs twice and the number '3' is missing. Hence, we output 2 and 3 for the repeating and the missing number, respectively.

## Example 2

Input

```
2
2 2
```

Output

```
2 1
```

Explanation

We have, array: [2, 2] and N = 2. In the given array '2' occurs twice and the number '1' is missing. Hence, we output 2 and 1 for the repeating and the missing number, respectively.

## Constraints

$2 \leq N \leq 10^5$

$1 \leq \text{nums}[i] \leq N$

### Topic Tags

- Hashing
- Math
- Arrays

# My code

```
// n java
import java.util.*;
```

```
import java.lang.*;
import java.io.*;

public class Main
{
    public static void main (String[] args) throws
java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int arr[]=new int[n+1];
        int hashtable[]= new int[n+1];
        for(int i=0;i<=n;i++)
            hashtable[i] =0;
        for(int i=1;i<=n;i++)
            arr[i]=s.nextInt();
        for(int i=1;i<n+1;i++)
            hashtable[arr[i]]= hashtable[arr[i]]+1;
        int rep=0,miss=0;
        for(int i=1;i<=n;i++)
        {
            if(hashtable[i]==2)rep=i;
            if(hashtable[i]==0)miss=i;
        } System.out.print(rep+" "+miss);
    }
}
```