### Find duplicates in an array

Given an array a[] of size N which contains elements from 0 to N-1, you need to find all the elements occurring more than once in the given array. Return the answer in ascending order.

**Note:** The extra space is only for the array to be returned.  
Try and perform all operations within the provided array.

**Example 1:**

**Input:**

N = 4

a[] = {0,3,1,2}

**Output:** -1

**Explanation:** N=4 and all elements from 0

to (N-1 = 3) are present in the given

array. Therefore output is -1.

**Example 2:**

**Input:**

N = 5

a[] = {2,3,1,2,3}

**Output:** 2 3

**Explanation:** 2 and 3 occur more than once

in the given array.

### JAVA Solution

### import java.io.\*;

### import java.util.\*;

### import java.util.Map.Entry;

### class CodingMaxima {

### public static void main(String[] args) {

### Scanner sc = new Scanner(System.in);

### int t = sc.nextInt();

### while (t-- > 0) {

### int n = sc.nextInt();

### int[] a = new int[n];

### for (int i = 0; i < n; i++) a[i] = sc.nextInt();

### Solution g = new Solution();

### ArrayList<Integer> ans = g.duplicates(a, n);

### for (Integer val : ans) System.out.print(val + " ");

### System.out.println();

### }

### }

### }

### class Solution {

### public static ArrayList<Integer> duplicates(int arr[], int n) {

### // code here

### 

### ArrayList<Integer> a=new ArrayList<Integer>();

### HashMap<Integer,Integer> hm=new HashMap<>();

### for(int i=0;i<n;i++){

### 

### hm.put(arr[i],(hm.getOrDefault(arr[i] ,0)+1));

### }

### int c=0;

### for(Integer i:hm.keySet()){

### if(hm.get(i)>1){

### a.add(i);

### c++;

### }

### }

### if(c==0){

### a.add(-1);

### return a;

### }

### else

### {

### Collections.sort(a);

### return a;

### }

### }

### }