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EASY

Max Score: 30 Points

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0-2-1 Sorting

You are given an array arr of size n that only consists of 0s 1s and 2s. Sort the array in such a way that it has all the 0s first then all the 2s and lastly all the 1s.

Input Format:

line 1: contains an integer ${\tt n}$ denoting number of elements of array.

line 2: contains n separated integers denoting elements of array.

Output Format:

Return the array such that it has all the 0s first then all the 2s and lastly all the 1s.

Example 1

Input

7 2 0 1 0 2 1 1

Output

0 0 2 2 1 1 1

Explanation

The required array consist of all the 0s followed by 2s and 1s.

Example 2

Input

5 0 1 0 1 1

Output

0 0 1 1 1

Explanation

The required array consist of all the 0s followed 1s.

Constraints

```
0 <= n <= 10^6
0 <= arr[i] <= 2
```

Topic Tags

Arrays

My code

```
// in java
import java.util.*;
public class Main {
   public static void main(String[] args) throws Throwable {
      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[] ans=Sorting021(n,arr);
     for(int i=0;i< n;++i){}
         System.out.print(ans[i] + " ");
      }
   }
      static int[] Sorting021(int n,int[] arr){
            int a[]=new int[n];
            int c=0,c1=0,c2=0;
            for(int i=0;i< n;i++)
```

```
{
                      if(arr[i]==0)
                            C++;
                       else if(arr[i]==1)
                            c1++;
                       else c2++;
                 }
           int p=0;
            while(c>0)
                       a[p++]=0;
                      //System.out.print(0+" ");
           while(c2>0)
                        a[p++]=2;
                        c2--;
                      //System.out.print(2+" ");
           while(c1>0)
                        a[p++]=1;
                        c1--;
                      //System.out.print(1+" ");
           return a;
     // Write your code here
}
```