

You have been given an integer array/list(**ARR**) of size '**N**'. It only contains 0s, 1s and 2s. Write a solution to sort this array/list.

**Note :**

Try to solve the problem in 'Single Scan'. 'Single Scan' refers to iterating over the array/list just once or to put it in other words, you will be visiting each element in the array/list just once.

**Input Format :**

The first line contains an integer '**T**' which denotes the number of test cases or queries to be run. Then the test cases follow.

The first line of each test case contains an Integer '**N**' denoting the size of the array/list.

The second line of each test case contains '**N**' space-separated Integers denoting the array/list.

**Output Format :**

For each test case/query, print the sorted array/list(**ARR**) as space-separated Integers.

Output for every test case will be printed in a separate line.

**Note:**

You need to change in the given array/list itself. Hence, no need to return or print anything.

**Constraints :**

$1 \leq T \leq 10$   
 $1 \leq N \leq (5 * (10^5))$   
 $0 \leq \text{ARR}[i] \leq 2$

Where '**N**' is the size of the given array/list.  
And, **ARR**[**i**] denotes the **i**-th element in the array/list.

Time Limit: 1sec

**Sample Input 1 :**

```
2
6
0 1 2 2 1 0
7
0 1 2 1 2 1 2
```

**Sample Output 1 :**

```
0 0 1 1 2 2
0 1 1 1 2 2 2
```

**Sample Input 2 :**

```
2
7
2 2 2 1 1 1 0
6
2 1 2 0 1 0
```

**Sample Output 2 :**

```
0 1 1 1 2 2 2
0 0 1 1 2 2
```