**Cumulative frequency of count of each element in an unsorted array**

Submissions: [1770](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2762)  Accuracy:

21.02%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

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Given an array of elements. The task is to calculate the cumulative frequency of each element of the array.

**Input:**  
The first line of input contains an integer T denoting the number of test cases. Then T test cases follow. Each test case consists of two lines. First line of each test case contains an integer N and the second line contains N space separated array elements.

**Output:**  
For each test case, print the space separated cumulative frequency of each element of sorted array in new line.

**Constraints:**  
1<=T<=100  
1<=N<=105  
1<=A[i]<=105

**Example:  
Input:**  
2  
6  
1 2 2 1 3 4  
6  
1 2 1 2 1 2

**Output:**  
2 4 5 6  
3 6

**Explanation:**

Input : arr[] = [1, 3, 2, 1, 2, 4]

Output :1->2

2->4

3->5

4->6

Input : arr[] = [1, 2, 1, 2, 1, 2]

Output :1->3

2->6

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/frequency-of-each-element-in-an-unsorted-array/0#ExpectOP) option \*\*

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<https://practice.geeksforgeeks.org/problems/frequency-of-each-element-in-an-unsorted-array/0>

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System;

namespace ConsoleApp2

{

class Program

{

static void Cummulative(int[] arr)

{

int max = arr.Max();

int[] dic = new int[max + 1];

for (int i = 0; i < arr.Length; i++)

{

dic[arr[i]]++;

}

int sum = 0;

//int post = 0;

//foreach(KeyValuePair<int,int> kvp in dic)

for (int i = 1; i < max + 1; i++)

{

sum += dic[i];

if (dic[i] > 0)

Console.Write(sum + " ");

//post = sum;

}

Console.WriteLine();

}

static void Main(string[] args)

{

//int[] arr = { 1, 2, 2, 1, 3, 4 }; //2 4 5 6

//Cummulative(arr);

int t = int.Parse(Console.ReadLine());

while (t-- > 0)

{

int n = int.Parse(Console.ReadLine());

int[] arr = Array.ConvertAll(Console.ReadLine().Trim().Split(' '), e => int.Parse(e));

Cummulative(arr);

}

Console.ReadLine();

}

}

}