Question:07

Given an array of n element . n >=1

Print distinct elements of an array in the decreasing frequency. If 2 numbers have same frequency then you have to sort in increasing order according to values and After that You have to find how many elements in sorted array which is summation of two or more prime numbers which should be also present in sorted array.

EX-

[3, 4, 6, 4,4,3,6,9,9,10,5,2,2]

Output

[4,2,3,6,9,5,10]

2

In given example, only 4 occurs 3 times so it is coming first then 2,3,4,6,9 occurs 2 times, 5,10 occurs 1 time so these numbers are sorted in increasing order.

Now in sorted array

5=2+3   2 and 3 are prime number and also present in array

10=5+3+2   2,3,and 5 are prime number and also present in array

So there are only two numbers 5 and 10 which is satisfying the above condition.

Input:-

T= number of test case;

A= all elements of array.

Output:-

Print sorted array and in next line print number of elements in sorted array which is summation of two or more prime numbers which should be also present in sorted array.

Sample input:-

2

[3, 5, 3, 6, 5, 8, 8, 8,2,7,10,12,12]

[3, 5, 2, 5,5, 8]

Sample output:-

8 3 5 12 2 6 7 10

5

5 2 3 8

2