Unique elements of an array and their frequency ✔

Statement | Solution

Given N space separated integers, please perform the following operations

- Find the unique elements of the array A - store it as the list $unique$, i.e. create a list $unique$ after removing all duplicates from the original array A
- Sort the list $unique$ in an ascending order.
- Find the frequency or occurrence of each element of the array $unique$ in the array A - store it as the list $freq$.
- Output the values in the lists $unique$ and $freq$

Input Format

- The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case consists of a two lines of input containing
  - The 1^{st} line contains the integer N
  - The 2^{nd} line contains N space separated integers - denoting the array A

Output Format

For each test case, output the following

- The sorted list $unique$ on the 1^{st} line
- The list $freq$ on the 2^{nd} line

Sample 1:

Input	Output
2 5 5 2 4 1 3 6 3 -3 3 -2 3 -7	1 2 3 4 5 1 1 1 1 1 -7 -3 -2 3 1 1 1 3

Explanation:

Test case 2

- The unique elements of the list are -7, -3, -2 and 3
- The frequency of the elements in A are 1, 1, 1 and 3 respectively