
Number

Given an array of integer. You should find how many of each number exist in the array.

Format Input

The input begins with an integer T indicating the number of test cases. In each test case, there is an integer N. In the next line, there is N integers describing the array.

Format Output

For each test case, you should output how many of each number exist in the array, from the smallest number to the largest in the format $a_i b_i$, where a_i is the number and b_i is the count of the number.

Constraints

$1 \leq T \leq 10$

$1 \leq N, a_i \leq 100000$

Sample Input	Sample Output
2 3 1 2 3 3 2 3 2	Case #1: 1 1 2 1 3 1 Case #2: 2 2 3 1