Once there was a survey going on in the famous technical company **SoftTech.**
Employee manager asked their employees to stand in a line.
In the survey every employee had to report the **number of employees** standing in front of him with the **same salary** as of that particular employee.
There are **N** employee.
Employee salary is given as an array of **N** elements.

Input :

First line will contain an integer '**T**' (number of test cases).
For each test case there is an integer '**N**' (number of employees).
Next line contains **N** integers **a[1],a[2],..a[N].**
a[i] denotes the salary of the 'i'th employee from left.

Output :

For each test case do :
For each 'i' (1<= i <= N) print the number of employee in front of the 'i'th employee with same salary as that of 'i'th employee.

Constraint :

T<=10000
1<=N<=5*100000
sum of N over all test cases <=5*10^5
1<=a[i]<=10^9

Sample input :

3
4
1 2 2 1
5
1 2 3 4 2
7
1 2 1 1 3 1 3

Sample output :

0 0 1 1
0 0 0 0 1
0 0 1 2 0 3 1

Explanation :

test case 3 :

employee 1 has salary 1 , but there is **no** employee in front of him with salary 1, hence print 0
employee 2 has salary 2 , but there is **no** employee in front of him with salary 2, hence print 0
employee 3 has salary 1 , there is an employee in front of him at **position 1** with salary 1, hence print 1

employee 4 has salary 1 , there are two employee in front of him at **position 1 and 3** with salary 1, hence print 2

employee 5 has salary 3 , but there is **no** employee in front of him with salary 3, hence print 0

employee 6 has salary 1 , there are three employee in front of him at **position 1 ,3 and 4** with salary 1, hence print 3

employee 7 has salary 3 , there is an employee in front of him at **position 5** with salary 3, hence print 0