Next Greater Element (Using Stack)

**Problem Statements :**

Given an array, print the Next Greater Element (NGE) for every element. The Next greater Element for an element x is the first greater element on the right side of x in array. Elements for which no greater element exist, consider next greater element as -1.

**Input Format :**

First line contains integer t which is number of test case.

For each test case, it an integer n which size of given array and next line contains n space separated integers.

**Constraints :**

1<=t<=100

1<=n<=1000

**Output Format :**

Print the element and it’s next greater element for given array separated by comma.

**Sample Input :**

2

4

11 13 21 3

5

11 9 13 21 3

**Sample Output :**

11,13

13,21

3,-1

21,-1

9,13

11,13

13,21

3,-1

21,-1

**Explanation :**

**Time Limit :**

1 sec.