

## 1082 – Array Queries

Given an array with  $N$  elements, indexed from  $1$  to  $N$ . Now you will be given some queries in the form  $I\ J$ , your task is to find the minimum value from index  $I$  to  $J$ .

### Input

Input starts with an integer  $T$  ( $\leq 5$ ), denoting the number of test cases.

The first line of a case is a blank line. The next line contains two integers  $N$  ( $1 \leq N \leq 10^5$ ),  $q$  ( $1 \leq q \leq 50000$ ). The next line contains  $N$  space separated integers forming the array. These integers range in  $[0, 10^5]$ .

The next  $q$  lines will contain a query which is in the form  $I\ J$  ( $1 \leq I \leq J \leq N$ ).

### Output

For each test case, print the case number in a single line. Then for each query you have to print a line containing the minimum value between index  $I$  and  $J$ .

Sample Input	Output for Sample Input
2  5 3 78 1 22 12 3 1 2 3 5 4 4  1 1 10 1 1	Case 1 : 1 3 12 Case 2 : 10

### Note

Dataset is huge. Use faster I/O methods.