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 (≤ 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 ≤ N ≤ 10^5)**, **q (1 ≤ q ≤ 50000)**. The next line contains **N** space separated integers forming the array. There integers range in **[0, 10^5]**.

The next **q** lines will contain a query which is in the form **I J (1 ≤ I ≤ J ≤ 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.