Minimum Sum

**Description:**

You are given N positive integers, denoted as x0, x1 ... xN-1. Then give you some intervals [l, r]. For each interval, you need to find a number x to make  as small as possible!

**Input:**

The first line is an integer T (T <= 10), indicating the number of test cases. For each test case, an integer N (1 <= N <= 100,000) comes first. Then comes N positive integers x (1 <= x <= 1,000, 000,000) in the next line. Finally, comes an integer Q (1 <= Q <= 100,000), indicting there are Q queries. Each query consists of two integers l, r (0 <= l <= r < N), meaning the interval you should deal with.

**Output:**

For the k-th test case, first output “Case #k:” in a separate line. Then output Q lines, each line is the minimum value of. Output a blank line after every test case.

**Sample input：**

2

5

3 6 2 2 4

2

1 4

0 2

2

7 7

2

0 1

1 1

**Sample output：**

Case #1:

6

4

Case #2:

0

0