Begin: 2021-10-10 12:30 CST

NCPC Simulation Day2

End: 2021-10-10 17:30 CST

Elapsed: 05:06:23

Running

Remaining: -1:53:36

Overview | Problem | Status | Rank (05:00:00) | 0 Comments

Setting | ☆Favorite

A B C D E F G H I J

Submit

Status | My Status

Time limit

1000 ms

Memory limit

1572864 kB

Code length Limit

50000 B

OS

Linux

Language limit

All except: ASM64

G - Negative Score

Orianna is a great swimmer and she's going to a swimming competition this m
and needs your help as she is highly paranoic about the results of the competiti

The competition consists in some sort of evaluations, every judge makes a sco
and, based on that score and the score of other contestants she will get a score
belonging to her results, those scores are final, meaning that will not change in the

competition.

Orianna requires this solution with urgency, she is getting evaluated on a lot of ways and she is very worried about her results, so she wants to know what is the worst score from an evaluation A to other evaluation B inclusive.

Input

The first line of the test data will start with an integer T representing the T test cases, then, T cases will follow, each of the cases starts with two integers N and Q, denoting the number of evaluations Orianna had, then, N integers will follow denoting the score on each evaluation, after that, Q queries will begin, each query consist on two integers A and B.

Output

You must output the string "`Scenario #i:`", a blank line and then the result of each query, remember, Orianna is interested on the worst score from evaluation A to evaluation B inclusive.

Example

Input:
```
2
5 3
1 2 3 4 5
1 5
1 3
2 4
5 3
1 -2 -4 3 -5
1 5
1 3
2 4
```

Output:
```
Scenario #1:
1
1
2
Scenario #2:
-5
-4
```

-4

Constraints
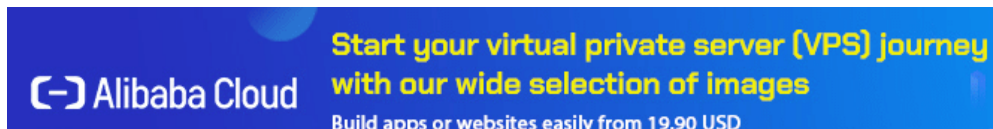
- 1 <= T <= 100

Small input (30%):

- 1 <= N <= 1,000
- 1 <= Q <= 1,000
- -10^9 <= Ni <= 10^9
- 1 <= A <= B <= N

Large input (70%):

- 1 <= N <= 100,000
- 1 <= Q <= 100,000
- -10^9 <= Ni <= 10^9
- 1 <= A <= B <= N

Solutions rejudged due to weak test cases.

Sponsor

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Server Time: 2021-10-10 17:36:23 CST