RPLN - Negative Score

#tree #rmq-1

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

The competition consists in some sort of evaluations, every judge makes a score 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.

Submit solution!

hide comments

darshan_7807: 2016-12-04 07:56:36
use scanf, printf

manas0008: 2016-09-30 23:22:03
use segment tree and assume large input as 1<=N<=10^6(for those who get SIGSEGV error at testcase 9).

Last edit: 2016-09-30 23:22:56

prakash_reddy: 2016-06-04 13:15:42
first segment tree question.... :)

gohanssj9: 2016-05-19 21:39:11
So segment tree and fast i/o gives me 0.78s, Any idea on how to reduce this time?

tanmaysachan: 2016-01-18 13:42:44
just use an unordered_map for the segtree, and ios::sync_with_stdio(0) for fast i/o

sonupmandal: 2015-11-11 09:55:13
really good problem...
segmented tree :-)

SANDEEP KUMAR: 2015-09-03 22:42:23
Took all array sizes in 10^5,got AC(1.22s) using sparse table and using scanf and printf.

Luis Manuel Dï¿½az Barï¿½n: 2014-10-17 13:11:52

Solved using RMQ Sparse Table.

||N0VICE||: 2014-07-29 15:43:55
first problem solved using segment trees :)
use of scanf,printf is recommended

Last edit: 2014-07-29 15:44:31

aristofanis: 2013-11-18 18:13:49
@RAHUL, @Krypt Pen, I think that WA is sent after your program is tested is all test cases, so you cannot be sure that it is failing at the 9th test case...

Submit solution!

Added by:	david_8k
Date:	2012-06-22
Time limit:	0.742s
Source limit:	50000B
Memory limit:	1536MB
Cluster:	Cube (Intel G860)
Languages:	All

Resource:	Own Problem used for the RPL contest