dbb+ - carryou ariswer these queries iv

#tree (/problems/tag/tree)

You are given a sequence A of N(N \leq 100,000) positive integers. There sum will be less than 10^{18} . On this sequence you have to apply M (M \leq 100,000) operations:

- (A) For given x,y, for each elements between the x-th and the y-th ones (inclusively, counting from 1), modify it to its positive square root (rounded down to the nearest integer).
- (B) For given x,y, query the sum of all the elements between the x-th and the y-th ones (inclusively, counting from 1) in the sequence.

Input

Multiple test cases, please proceed them one by one. Input terminates by EOF.

For each test case:

The first line contains an integer N. The following line contains N integers, representing the sequence $A_1..A_N$. The third line contains an integer M. The next M lines contain the operations in the form "i x y".i=0 denotes the modify operation, i=1 denotes the query operation.

Output

For each test case:

Output the case number (counting from 1) in the first line of output. Then for each query, print an integer as the problem required.

Print an blank line after each test case.

See the sample output for more details.

Example

```
Input:
1 2 3 4 5
1 2 4
0 2 4
1 2 4
0 4 5
1 1 5
10 10 10 10
1 1 4
0 2 3
1 1 4
Output:
Case #1:
4
Case #2:
40
26
```

	on believable
0	avisheksanvas (/users/avisheksanvas): 2017-02-27 14:14:38 Motto of this problem : A fine line between TLE and AC ;)
0	rihaz_zahir (/users/rihaz_zahir): 2017-02-13 17:01:52 how to do the EOF function to take the inputs??
0	siddharth_0196 (/users/siddharth_0196): 2016-12-26 15:30:26 Inclusion of 1 statement can change TLE to AC! :D
0	Rohit Sharma (/users/tihorsharma): 2016-10-31 08:13:46 beware x>y in this problem
0	segorov (/users/segorov): 2016-10-06 16:41:50 if (l > r) swap(l, r); It helped me to solve this task. Too weird
0	blinkingstar (/users/blinkingstar): 2016-09-26 16:21:06 @munjal Like if (x > y) while(1) {} ?
O	munjal (/users/munjal5): 2016-09-07 19:12:01 @Ryuzaki How did you know the test cases.
Leave a	a Comment
Publi	sh

Notes:

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- 2. Please be careful, leave short comments only. Don't spam here.
- 3. For more discussion (hints, ideas, solutions) please visit our forum (/forum).
- 4. Authors of the problems are allowed to delete the post and use html code here (e.g. to provide some useful links).

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