PROBLEM

EDITORIAL MY SUBMISSIONS ANALYTICS DISCUSSIONS

Total and of land are bose badaness one day stiding offer from the problem to tost the intempendence gives him an array of N natural numbers and asks him to solve the following queries:-

Query 0:- modify the element present at index i to x.

Query 1:- count the number of even numbers in range I to r inclusive.

Query 2:- count the number of odd numbers in range I to \mathbf{r} inclusive.

input:

First line of the input contains the number N. Next line contains N natural numbers.

Next line contains an integer Q followed by Q queries.

 $0 \times y$ - modify the number at index x to y.

1 x y - count the number of even numbers in range I to r inclusive.

 $2 \times y$ - count the number of odd numbers in range I to r inclusive.

Constraints:

1<=N,Q<=10^5

1<=|<=r<=N

0<=Ai<=10^9

1<=x<=N

0<=y<=10^9

Note:- indexing starts from 1.

SAMPLE INPUT	% 4	SAMPLE OUTPUT	% 4
6		2	
1 2 3 4 5 6		2	
4		4	
1 2 5			
2 1 4			
0 5 4			
1 1 6			