

Shahadat and Sequence

Shahadat is a great programmer who loves sequence. Every time he thinks about sequence. He is so fond of sequence that sometimes he found new sequences in his dream.

One day he fell asleep and in his dream he found a new sequence, which is as follows:

$$(2^{x_1}) + (2^{x_2} + 1) + (2^{x_3}) + (2^{x_4} + 1) + \dots + (2^{x_n} + 1)$$

Where, $1 \leq x_i \leq 30$, n is even number and $2 \leq n \leq 10^5$

For simplicity, you can think it as an array(A) of n integers. Where,

$$A[1] = 2^{x_1}$$

$$A[2] = 2^{x_2} + 1$$

$$A[3] = 2^{x_3}$$

.....

$$A[n] = 2^{x_n} + 1$$

You will be given the values of x_1, x_2, \dots, x_n .

You have to answer Q ($1 \leq Q \leq 10^5$) queries. In each query you will be given two integer l and r ($1 \leq l \leq r \leq n$). You have to answer the summation of all elements of array A from l to r (**inclusive**) is even or odd .

Input

In the first line you will be given an integer n . In the next line you will be given n integers which are the values of x_1, x_2, \dots, x_n . In the third line you will be given an integer Q . In the next Q lines you will be given two integers l and r .

Output

For each query print “**Even**” if $(A[l] + a[l+1] + \dots + A[r])$ is even, otherwise print “**Odd**” without quotes.

Constrains

$$1 \leq x_i \leq 30$$

$$2 \leq n \leq 10^5 \text{ and } n \text{ is even}$$

$$1 \leq Q \leq 10^5$$

$$1 \leq l \leq r \leq n$$

For better understanding see the sample input output.

Example

Input:

5
3 2 1 2 2

3
1 3
2 5
2 3

Output:

Odd
Even
Odd