

Dancing in Pairs



Bob is a dance teacher and he started dance classes recently. He observes a strange attendance pattern among his students. Initially, there are no students. On day i , a new student starts attending the class. The student stops attending the class, if and only if he has attended the class for i consecutive days. Also, the student resumes attending the class, if and only if he has not attended the class for i consecutive days.

We denote the student who starts coming on day i as student i . To mark attendance, **o** denotes present and **x** denotes absent.

For example, the schedule for student 1 from day 1 is as follows:

oxoxoxoxoxoxoxoxox...

The schedule for the student 3 from day 1 is as follows:

xxooooxxxooooxxxooooxxx...

(Student 3 starts attending the class from day 3, and stops attending from day 6, and then starts attending from day 9, and so on.)

The schedule for the student 5 from day 1 is as follows. **xxxxoooooxxxxxxoooooxxxxx...**

Bob wants his students to dance in pairs. However, if the number of students coming on day i is odd, then there will be someone who can't find a partner. So Bob wants to know if the number of students coming on day i is even or odd. We denote the number of students coming on day i as $N(i)$. Please find out whether $N(i)$ is even or odd.

Input format

The first line contains an integer, T , which denotes the number of test cases. For each test case, there is an integer i

Output Format

For each test case, if $N(i)$ is even, then print **even**.
If $N(i)$ is odd, then print one line **odd**.

Constraints

$$1 \leq T \leq 100$$

$$1 \leq i \leq 10^{18}$$

Sample Input

```
4
1
2
3
4
```

Sample Output

```
odd
odd
odd
even
```

Explanation

The number of students coming on day 1 is 1: only student #1 attends the class. So $N(1)=1$ and it is odd.
The number of students coming on day 2 is 1: student #2, so $n(2)=1$ and it is odd.
The number of students coming on day 3 is 3: student #1, student #2, and student #3. So $N(3)=3$ and it

is odd.

The number of students coming on day 4 is 2: student #3 and student #4. So $N(4)=2$ and it is even.