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:
`oxoxoxoxoxoxoxoxoxox...`

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

`xxoooxxxoooxxxoooxxx...`
(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. `xxxxoooooxxxxxoooooxxxxx...`

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.