Gears of War

Alex is preparing for a programming contest and decides the gears turning in his head are at war with his own laziness. He imagines chains of n circularly linked gears trying to turn in his head, and wonders under which circumstances they might be able to turn together in a single chain and when they might be locked (i.e., unable to rotate together).

Alex decides to set a problem for himself by creating q queries where each query takes the form of an integer, n, denoting some number of circularly linked gears. For each query, print `Yes` on a new line if the gears can turn together; otherwise, print `No`.

Input Format

The first line contains single integer, q, denoting the number of queries.
Each line i of the q subsequent lines contains a single integer, n, denoting the number of gears for that query.

Constraints

- $1 \leq q \leq 10^5$
- $3 \leq n \leq 10^5$

Output Format

For each query, print `Yes` on a new line if it is possible to rotate all n gears simultaneously; otherwise, print `No`.

Sample Input

```
2
3
4
```

Sample Output

```
No
Yes
```

Explanation

When $n = 3$, the gears will lock together and be unable to rotate simulatanously so we print `No` on a new line.
When $n = 4$, each individual gear will be able to simultaneously rotate either clockwise or counterclockwise so we print `Yes` on a new line.