## Problem 1004. Link with Equilateral Triangle

Link has a big equilateral triangle with side length $n$. The big triangle consists of $n^{2}$ small equilateral triangles with side length 1 .
Link is going to fill numbers into each vertex of the small triangle with the following limits:

- The number filled in should be 0,1 , or 2 .
- The left side of the big triangle should not be filled with 0 . The right side of the big triangle should not be filled with 1 . The bottom side of the big triangle should not be filled with 2 .
For each small triangle with side length 1 , the sum of three vertices should not be a multiple of 3 .


Link went crazy when he tried to do so because he couldn't find any triangle satisfying all conditions above. Now, he turns to you for help.
Please tell Link: Is it possible to fill the triangle so that it satisfies all conditions above?

## Input

Each test contains multiple test cases. The first line contains the number of test cases $T(1 \leq T \leq 1000)$. Description of the test cases follows.
For each test case, there is only one line containing a single integer $n\left(1 \leq n \leq 10^{3}\right)$.

## Output

For each test case, output Yes if it is possible to do so. Output No if it is impossible to do so.

## Example Input

$\square$

## Example Output

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No
No
```

