

Missing

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

For a long time, *Mazen* did not meet his friend *Mahmoud*, so he decided to visit him at the same time that *Mahmoud* decided to visit *Mazen*.

Mazen and *Mahmoud* are living in square grid consisting of $n \times n$ with rows and columns numbered from 1 to n , *Mazen* is living in cell (1,1) and *Mahmoud* is living in cell (n,n).

So in each move:

- *Mazen* can go *Down* and then *Right*.
- *Mahmoud* can go *Up* and then *Left*.

You need to determine whether they will meet each other in any cell.

Input

The first line contains t ($1 \leq t \leq 1000$) – t donates numbers of test cases.

Each line contains n ($2 \leq n \leq 10^3$) – n is the dimension of the grid.

Output

In each test case if *Mazen* will meet *Mahmoud* print “**YES**” or he will not find him print “**NO**”.

The strings “**yEs**”, “**yes**”, “**Yes**” and “**YES**” will be recognized as a positive answer.

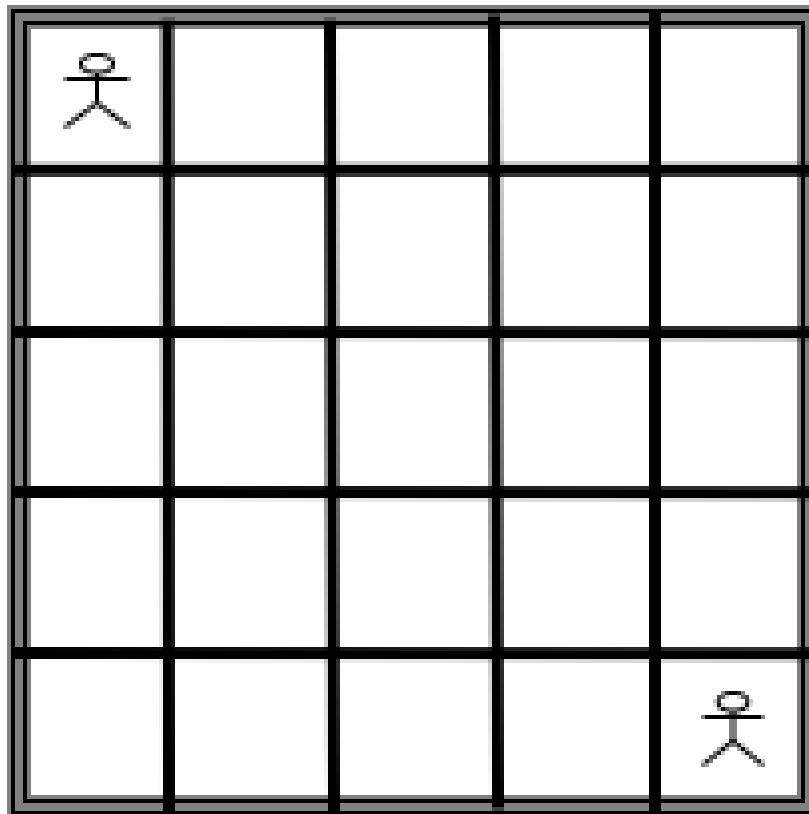
Example

| standard input | standard output |
|----------------|-----------------|
| 2 | NO |
| 4 | YES |
| 5 | |

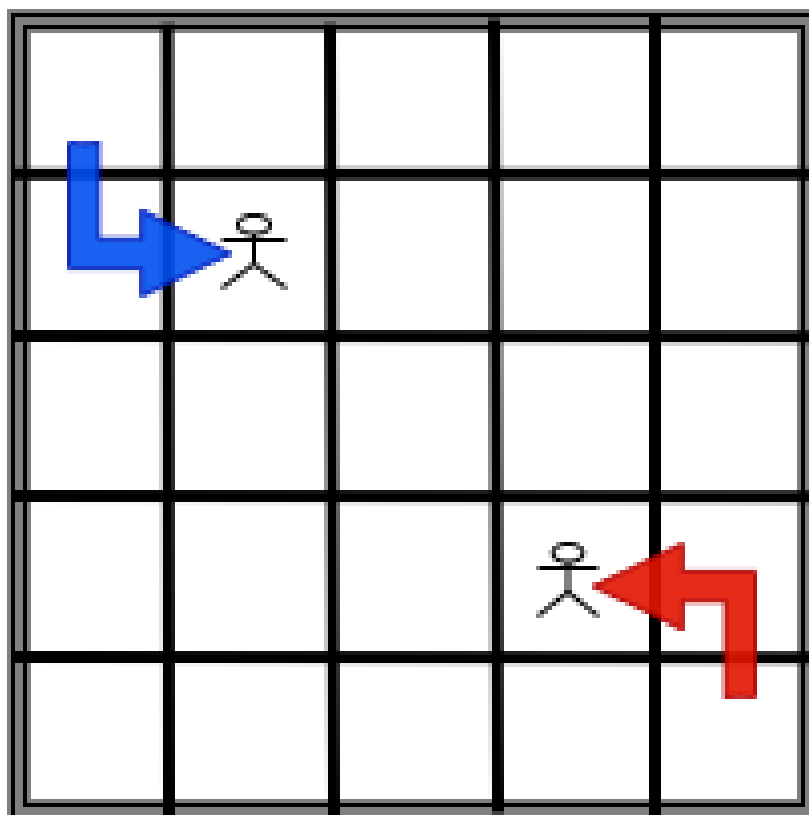
Note

For $N = 5$:

1- Initially *Mazen* and *Mahmoud* place.



2- After *first* move:



3- Afer *Second* move *Mazen* and *Mahmoud* will be at the same cell:

