## Playing with isosceles triangle

Naruto was always alone as a kid. He used to get bored a lot and always tried different things for fun. Once he got facinated by isosceles triangles and developed a game. He will choose a integer value $S$ to be length of the equal sides of the isosceles triangle. Now if it is possible that he can form any triangle which has a third side of even length as well a height of integral value with the third side as base then he becomes happy.
Given $S$ determine if Naruto will be happy.

## Input

First line contains T, the number of test cases. (T<=10000)
The next $T$ lines each contain a integer value $\mathrm{S}<1000000$.

## Output

For each of T test cases output YES if Naruto will be happy and NO otherwise

## Example

Input:
2
5
8
Output:
YES
NO
Explaination:
In 1st case for $\mathrm{S}=5$, the third side can be 6 and height can be 4.
In 2nd case for $\mathrm{S}=8$, no such combination is possible.

