

Sir Please Give Us Candies

CANDIES

After registration process, In Distributed System class Somani sir decided to distribute candies to the students who opted his course. He has N candies in his bag but before distributing the candies he said that divide the whole class into two groups such that each group member would get the number of candies exactly same as number of students in that particular group. That particular day number of students in the class are P . For any value of P ($0 \leq P \leq N$) is it possible to distribute candies successfully in the class.

Input

First line of the input contains number of test cases $t \leq 100$ and each line corresponding to a test case consist an integer N (number of candies).

$0 \leq N \leq 10^{10}$

Output

for each test case print "Yes" if for any value of P (with in given constraint) distribution is possible otherwise print "No".

EXAMPLE:

Input :

5
10
11
12
15
25

Output :

Yes
No
No
No
Yes