**Check set bits**

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[Amazon](http://practice.geeksforgeeks.org/company/Amazon/)

Given a number N. Write a program to check whether every bit in the binary representation of the given number is set or not.

**Input:**  
First line of input contains a single integer T which denotes the number of test cases. T test cases follows. First line of each test case contains a single integer N which denotes the number to be checked.

**Output:**  
For each test case, print "YES" without quotes if all bits of N are set otherwise print "NO".

**Constraints:**  
1<=T<=1000  
0<=N<=1000

**Example:  
Input:**  
3  
7  
14  
4  
**Output:**  
YES  
NO  
NO

\*\*For More Examples Use Expected Output\*\*

<http://practice.geeksforgeeks.org/problems/check-set-bits/0>

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\*/

package javaapplication243;

import java.io.\*;

import java.util.ArrayList;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication243 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws IOException {

// TODO code application logic here

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int t = Integer.parseInt(br.readLine());

while(t-- > 0) {

int n = Integer.parseInt(br.readLine());

String bin = Integer.toBinaryString(n);

// System.out.println(bin);

if(bin.contains("0")) {

System.out.println("NO");

}else{

System.out.println("YES");

}

}

}

}