# OPE\_BIT\_Level1\_0013

Write a program to receive a number and check whether it is two's power or not? In mathematics, a power of two is a number of the form 2^n where n is an integer, i.e. the result of exponentiation with number two as the base and integer n as the exponent. ... Because two is the base of the binary numeral system, powers of two are common in computer science.

#### **Input Format**

First line specifies the number of test cases. Each line has an integer that needs

to be processed by your program.

#### **Constraints**

 $1 \le n1 \le 200000000$ 

### **Output Format**

Print YES OR NO

## Sample Input 0

3 512 4908 4096

### **Sample Output 0**

YES NO YES