

## 2420 - Binary Palindrome

### Description

Given a number between 0 and  $2^{30}$  both inclusive, determine if the number is a palindrome in its binary representation.

### Input specification

A number T where  $0 < T < 600$ , representing the amount of numbers to test. Each of the next T lines contains a number N, where  $0 \leq N \leq 1073741823$ .

### Output specification

If N is a binary palindrome, print "YES" without quotes. If it is not, print "NO" without quotes.

### Sample input

```
3
1754
1755
1756
```

### Sample output

```
NO
YES
NO
```

### Hint(s)

Source	Jorge Amado Soria
Added by	<b>ymondelo20</b>
Addition date	2013-05-19
Time limit (ms)	10000
<b>Test limit (ms)</b>	4000
Memory limit (kb)	256000

## Caribbean Online Judge

Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text