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 <= N <= 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	ymondelo20
Addition date	2013-05-19
Time limit (ms)	10000
Test limit (ms)	4000
Memory limit (kb)	256000