

Reach Value

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

Given a number N . Initially you have a value equal **1** and you can perform one of the following operation any number of times:

1. Multiply your current value by 10.
2. Multiply your current value by 20.

Determine if your value can reach N or not.

Note: Solve this problem using recursion.

Input

First line contains a number T ($1 \leq T \leq 100$) number of test cases.

Next T lines will contain a number N ($1 \leq N \leq 10^{12}$).

Output

For each test case print “**YES**” if your value can reach exactly N otherwise, print “**NO**”.

Example

standard input	standard output
5	YES
1	NO
2	YES
10	NO
25	YES
200	