Adam Number

Given a number N, write a program to check whether given number is Adam Number or not.
Adam number is a number when reversed, the square of the number and the square of the reversed number should be numbers which are reverse of each other. Adam numbers upto 1000 are: 0, 1, 2, 3, 11, 12, 13, 21, 22, 31, 101, 102, 103, 111, 112 , 113, 121, 122, 201, 202, 211, 212, 221, 301, 311.

Input:
The first line of input contains a single integer T which denotes the number of test cases. Then T test cases follows. First line of each test case contains a single integer N.

Output:
For each test case print "YES" without quotes if N is an Adam number otherwise print "NO".

Constraints:
1<=T<=10000
$1<=N<=10^9$

Example:
Input:
2
12
14
Output:
YES
NO