

Krishnamurthy number

A Krishnamurthy number is a number whose sum of the factorial of digits is equal to the number itself. Given a number N as input. Write a program to check whether this number is krishnamurthy number or not.

Input:

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 a Krishnamurthy Number otherwise print "NO".

Constraints:

$$1 \leq T \leq 100$$

$$1 \leq N \leq 10^5$$

Example:

Input:

2

145

235

Output:

YES

NO