**Strong Numbers**

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**Strong Numbers**are the numbers whose sum of factorial of digits is equal to the original number. Given a number, the task is to check if it is a Strong Number or not.

Examples:

Input : n = 145

Output : 1

Sum of digit factorials = 1! + 4! + 5!

= 1 + 24 + 120

= 145

Input : n = 5314

Output : 0

**Input:**  
The first line of input contains an integer T denoting the no of test cases. Then T test cases follow.  Each test case contains an integer N.  
  
**Output:**  
For each test case in a new line print 1 if the number is a strong number, else print a 0.  
  
**Constraints:**  
1<=T<=200  
1<=N<=10000  
  
**Example:  
Input:**  
2  
145  
100  
**Output:**  
1  
0

\*\*For More Examples Use Expected Output\*\*

<http://practice.geeksforgeeks.org/problems/strong-numbers/0>

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\*/

package javaapplication245;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.util.ArrayList;

import java.util.Arrays;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication245 {

/\*\*

\* @param args the command line arguments

\*/

static int factorial(int n) {

int prod = 1;

for(int i =2; i<=n; i++) {

prod\*=i;

}

return prod;

}

public static void main(String[] args) throws IOException {

// TODO code application logic here

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int t = Integer.parseInt(br.readLine());

while(t-- > 0) {

int n = Integer.parseInt(br.readLine());

int copia =n;

int sum =0;

while(copia > 0) {

sum += factorial(copia % 10);

copia /=10;

}

if(sum == n) {

System.out.println(1);

}else{

System.out.println(0);

}

}

}

}