# $\frac{https://panchalprogrammingacademy.github.io/course-problem-\\deck/\#/problem/5fb3c8c9cf57340017a6fe45}{}$

# **Armstrong Number**

**60 POINTS** 

Given a positive integer N find out if it is an Armstrong number.

Note that a number N is said to be an Armstrong number if the sum of digits each raise to the power number of digits is equal to the number itself e.g.

$$153 = 1^3 + 5^3 + 3^3 = 1 + 125 + 9 = 135$$
  
 $1634 = 1^4 + 6^4 + 3^4 + 4^4 = 1 + 1296 + 81 + 256 = 1634$ 

#### Input format:

A single line of input containing the value of N

### Output format:

TRUE if N is an Armstrong number FALSE otherwise

#### Constraints:

(i)  $1 \le N \le 10^9$ 

Test Case - 1

153

TRUE

Test Case - 2

1634

**TRUE** 

Test Case - 3

1635

**FALSE** 

## Problem tags:

THE COMPLETE C COURSE EASY LOOPS