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) $1 \leq N \leq 10^9$

Test Case - 1
153
TRUE

Test Case - 2
1634
TRUE

Test Case - 3
1635
FALSE

Problem tags:

THE COMPLETE C COURSE EASY LOOPS