1134. Armstrong Number Premium

Easy Topics Companies O Hint

Given an integer n, return true if and only if it is an Armstrong number.

The k-digit number n is an Armstrong number if and only if the kth power of each digit sums to n.

Example 1:

Input: n = 153
Output: true

Explanation: 153 is a 3-digit number, and $153 = 1^3 + 5^3 + 3^3$.

Example 2:

Input: n = 123
Output: false

Explanation: 123 is a 3-digit number, and 123 $!= 1^3 + 2^3 + 3^3 = 36$.

Constraints:

• 1 <= n <= 10⁸

Seen this question in a real interview before? 1/5

Yes No

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Topics

Math

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0 - 6 months

Amazon 2

Check if the given k-digit number equals the sum of the k-th power of it's digits.

O Hint 2

How to compute the sum of the k-th power of the digits of a number? Can you divide the number into digits using division and modulus operations?

You can find the least significant digit of a number by taking it modulus 10. And you can remove it by dividing the number by 10 (integer division). Once you have a digit, you can raise it to the power of k and add it to the sum.

Discussion (1)