Problem Editorial Submissions Comments

Armstrong Numbers

Difficulty: **Easy** Accuracy: **49.88%** Submissions: **218K+** Points: **2**

You are given a **3-digit** number **n**, Find whether it is an **Armstrong** number or not.

An *Armstrong number* of three digits is a number such that the sum of the cubes of its digits is equal to the *number* itself. 371 is an Armstrong number since $3^3 + 7^3 + 1^3 = 371$.

Examples:

Input: n = 153
Output: true
Explanation: 153 is an Armstrong number since $1^3 + 5^3 + 3^3 = 153$.

Input: n = 372
Output: false
Explanation: 372 is not an Armstrong number since $3^3 + 7^3 + 2^3 = 378$.

Input: n = 100
Output: false
Explanation: 100 is not an Armstrong number since $1^3 + 0^3 + 0^3 = 1$.

Constraints:

$100 \leq n < 1000$

Try more examples

Expected Complexities

Python3 Start Timer

```python
#User function Template for python3

class Solution:
    def armstrongNumber (self, n):
        num =n
        count =0
        while num !=0:
            rem = num % 10
            count += rem**3
            num = num //10
        if count == n:
            return True
        else:
            return False
```