Description | Editorial | Solutions | Submissions

1134. Armstrong Number

Premium

Solved

Easy | Topics | Companies | 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 `k^th` 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 <= 10^8`

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

Yes | No

Accepted 36.2K | Submissions 46.5K | Acceptance Rate 77.8%

Topics

Companies

Hint 1

Hint 2

Hint 3

Discussion (1)

206 | 1

Code

Python3 • Auto

```python
class Solution:
    def isArmstrong(self, n: int) -> bool:

        length = len(str(n))
        n = str(n)
        ans = 0

        for i in range(0, length):
            ans += int(n[i]) ** length

        if ans == int(n):
            return True
        else:
            return False

```

Saved

Ln 5, Col 19

Testcase | Test Result

Case 1 | Case 2 | +

n =

153

Source