Problem 1780: Check if Number is a Sum of Powers of Three

Problem Information

Difficulty: Medium
Acceptance Rate: 79.34%
Paid Only: No
Tags: Math

Problem Description

Given an integer `n`, return `true` _if it is possible to represent_`n` _as the sum of distinct powers of three._ Otherwise, return `false`.

An integer `y` is a power of three if there exists an integer `x` such that `y == 3x`.

Example 1:

Input: n = 12 **Output:** true **Explanation:** 12 = 31 + 32

Example 2:

Input: n = 91 **Output:** true **Explanation:** 91 = 30 + 32 + 34

Example 3:

Input: n = 21 **Output:** false

Constraints:

* `1 <= n <= 107`

Code Snippets

C++:

```
class Solution {
public:
bool checkPowersOfThree(int n) {

}
};
```

Java:

```
class Solution {
public boolean checkPowersOfThree(int n) {

}
}
```

Python3:

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