

Problem 326: Power of Three

Problem Information

Difficulty: Easy

Acceptance Rate: 50.31%

Paid Only: No

Tags: Math, Recursion

Problem Description

Given an integer `n`, return `_true` if it is a power of three. Otherwise, return `false` `_`.

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

Example 1:

`Input:` n = 27 `Output:` true `Explanation:` $27 = 3^3$

Example 2:

`Input:` n = 0 `Output:` false `Explanation:` There is no x where $3x = 0$.

Example 3:

`Input:` n = -1 `Output:` false `Explanation:` There is no x where $3x = (-1)$.

Constraints:

`* ` -231 <= n <= 231 - 1``

Follow up: Could you solve it without loops/recursion?

Code Snippets

C++:

```
class Solution {  
public:  
bool isPowerOfThree(int n) {  
  
}  
};
```

Java:

```
class Solution {  
public boolean isPowerOfThree(int n) {  
  
}  
}
```

Python3:

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