263 Ugly Number (link)

Description

An **ugly number** is a positive integer whose prime factors are limited to `2`, `3`, and `5`.

Given an integer `n`, return `true` *if* `n` *is an* ***ugly number***.

Example 1:

```
Input: n = 6
Output: true
Explanation: 6 = 2 × 3
```

Example 2:

```
Input: n = 1
Output: true
Explanation: 1 has no prime factors, therefore all of its prime factors are limited t
```

Example 3:

```
Input: n = 14
Output: false
Explanation: 14 is not ugly since it includes the prime factor 7.
```

Constraints:

- -2^{31} <= n <= 2^{31} - 1

(scroll down for solution)

Solution

Language: cpp

Status: Accepted

```cpp
class Solution {
public:
    bool isUgly(int n) {
        if (n <= 0) return false;
        while (n % 2 == 0) n /= 2;
        while (n % 3 == 0) n /= 3;
        while (n % 5 == 0) n /= 5;
        return n == 1;
    }
};
```