Write a program to check whether a given number is an ugly number.

Ugly numbers are **positive numbers** whose prime factors only include 2, 3, 5.

**Example 1:**

**Input:** 6

**Output:** true

**Explanation:** 6 = 2 × 3

**Example 2:**

**Input:** 8

**Output:** true

**Explanation:** 8 = 2 × 2 × 2

**Example 3:**

**Input:** 14

**Output:** false

**Explanation:** 14 is not ugly since it includes another prime factor 7.

**Note:**

1. 1 is typically treated as an ugly number.
2. Input is within the 32-bit signed integer range: [−231,  231− 1].