

Leet Code

Day-44 Q-03 Ugly Number

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: $6 = 2 \times 3$

Example 2:

Input: 8

Output: true

Explanation: $8 = 2 \times 2 \times 2$

Example 3:

Input: 14

Output: false

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

Note:

- 1 is typically treated as an ugly number.
- Input is within the 32-bit signed integer range: $[-2^{31}, 2^{31} - 1]$.

