Given an integer n, return *true if it is a power of four. Otherwise, return false*.

An integer n is a power of four, if there exists an integer x such that n == 4x.

**Example 1:**

Input: n = 16  
Output: true

**Example 2:**

Input: n = 5  
Output: false

**Example 3:**

Input: n = 1  
Output: true

**Constraints:**

* -231 <= n <= 231 - 1

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