

## 231. Power of Two

Easy



1407



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

An integer `n` is a power of two, if there exists an integer `x` such that `n == 2x`.

#### Example 1:

**Input:**  $n = 1$

**Output:** true

**Explanation:**  $2^0 = 1$

#### Example 2:

**Input:**  $n = 16$

**Output:** true

**Explanation:**  $2^4 = 16$

#### Example 3:

**Input:**  $n = 3$

**Output:** false

#### Example 4:

**Input:**  $n = 4$

**Output:** true

#### Example 5:

**Input:**  $n = 5$

**Output:** false

## Constraints:

- $-2^{31} \leq n \leq 2^{31} - 1$

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