

PROBLEM

231. Power of Two

Easy Topics Companies

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 $n = 2^x$.

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`

Constraints:

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

CODE

```
class Solution {
    public boolean isPowerOfTwo(int n) {
        if (n < 1) {
            return false;
        } else if (n == 1) {
            return true;
        }
        else {
            while (n % 2 == 0) {
                n = n / 2;
            }
            if (n == 1) {
                return true;
            }
        }
    }
}
```

```
}  
else  
    return false;  
}  
}
```

EXPLANATION

