# 476. Number Complement

## Easy

**Topics** 

### Companies

The **complement** of an integer is the integer you get when you flip all the 0 's to 1 's and all the 1 's to 0 's in its binary representation.

• For example, The integer 5 is "101" in binary and its **complement** is "010" which is the integer 2.

Given an integer num, return its complement.

# Example 1:

Input: num = 5

Output: 2

**Explanation:** The binary representation of 5 is 101 (no leading zero bits), and its complement is 010. So you need to output 2.

# Example 2:

Input: num = 1

Output: 0

**Explanation:** The binary representation of 1 is 1 (no leading zero bits), and its complement is 0. So you need to output 0.

#### **Constraints:**

```
• 1 <= num < 231
```

### Solution: