

## Day 31 (16/07/2025)

### 1. Check if a Number is Power of 2

Given a number  $n$ , check if it is a power of 2 using bitwise operations. A power of 2 has only one bit set in its binary form.

Input 1: 8

Output 1: Yes

Input 2: 10

Output 2: No

### 2. Multiply a Number by 2 Using Bitwise

Write a program to multiply a number  $n$  by 2 using only bitwise operators.

Input 1:  $n = 3$

Output 1: 6

Input 2:  $n = 7$

Output 2: 14

### 3. Divide a Number by 2 Using Bitwise

Write a program to divide a number  $n$  by 2 using bitwise shift operators (ignore the decimal part if any).

Input 1:  $n = 10$

Output 1: 5

Input 2:  $n = 9$

Output 2: 4