Day 32 (17/07/2025)

1. Swap Two Numbers Without Temporary Variable

Given two integers a and b, swap their values using bitwise XOR without using any extra variable.

Input 1: a = 4, b = 7

Output 1: a = 7, b = 4

Input 2: a = 1, b = 2

Output 2: a = 2, b = 1

2. Find the Only Non-Repeating Element

Given an array of integers where every element appears twice except for one, find that unique non-repeating element using bitwise XOR.

Input 1: [2, 3, 2]

Output 1: 3

Input 2: [5, 1, 1, 5, 7]

Output 2: 7

3. Find XOR of All Numbers in an Array

Write a function to find the XOR of all elements in the array.

Input 1: [1, 2, 3]

Output 1: 0

Input 2: [4, 5, 6]

Output 2: 7