

### **Q1. Find Second Largest Number (Easy, Array)**

**Problem:** Return the second largest number in an array.

**Example:**

Input: [5,3,9,7]

Output: 7

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### **Q2. Find Majority Element (Medium, Array)**

**Problem:** Element that appears more than  $n/2$  times.

**Example:**

Input: [2,2,1,2,3,2,2]

Output: 2

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### **Q3. Linear Search (Easy, Array)**

**Problem:** Search for a given number in an array.

**Example:**

Input: array = [4,1,8,3], target = 8

Output: index = 2

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#### **Q4. Sum of Digits (Easy, Math)**

**Problem:** Return the sum of all digits of a number.

**Example:**

**Input:** 543

**Output:** 12

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#### **Q5. Find First Repeating Element (Medium, Array)**

**Problem:** Return the first element that appears more than once.

**Example:**

**Input:** [5,3,4,3,5,6]

**Output:** 3

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#### **Q6. Check Anagram Strings (Medium, String)**

**Problem:** Two strings are anagrams if they contain same characters in any order.

**Example:**

**Input:** "listen", "silent"

**Output:** true

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### **Q7. Longest Word in Sentence (Medium, String)**

**Problem:** Given a sentence, return the longest word.

**Example:**

**Input:** "I love programming"

**Output:** "programming"

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### **Q8. Find Missing & Duplicate Number (Medium, Array)**

**Problem:** Array has numbers 1..n, but one number is missing & one appears twice.

**Example:**

**Input:** [1,2,2,4]

**Output:** Duplicate = 2, Missing = 3

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