

# C# Part3 Exercises

## 1. Array Initialization & Output

- Declare an array of 5 integers.
- Assign values and print them using a for loop.

## 2. Find Maximum & Minimum in an Array

- Ask the user to enter 10 numbers.
- Find and display the **maximum** and **minimum** values.

## 3. Count Even & Odd Numbers

- Ask the user to input N numbers into an array.
- Count and display how many numbers are **even** and **odd**.

## 4. Reverse an Array

- Ask the user for N numbers.
- Reverse the array and print the result.

## 5. Search for a Number in an Array

- Input N numbers into an array.
- Ask for a number to search for and check if it exists in the array.
- If found, display its **index**.

## 6. Sorting an Array (Ascending Order)

- Ask the user for N numbers.
- Sort them **in ascending order** (using Bubble Sort or Array.Sort()).

## 7. Merging Two Arrays

- Ask the user for **two arrays** of the same size.
- Merge them into one larger array.
- Print the final array.

## 8. Remove Duplicates from an Array

- Ask the user to enter N numbers.
- Remove duplicate values and print the unique numbers.

## 9. Second Largest Number in an Array

- Input N numbers into an array.
- Find and display the **second-largest** number.