single-dimensional array

* **Find the Maximum and Minimum Element**

Write a C# program to find the maximum and minimum elements in a single-dimensional array.

* **Reverse an Array**

Write a program to reverse a given single-dimensional array without using built-in functions.

* **Sum and Average of Array Elements**

Write a C# program to calculate the sum and average of all elements in a single-dimensional array.

* **Count Occurrences of an Element**

Write a program that counts how many times a given number appears in a single-dimensional array.

* **Sort an Array (Ascending and Descending)**

Implement a sorting algorithm (such as Bubble Sort or Selection Sort) to sort an array in ascending and descending order without using built-in sorting methods.

Multi dimensional array

**Basic Questions**

* **Create and Display a 2D Array**

Write a C# program to declare a m x n matrix (2D array), take user input, and display the matrix.

* **Sum of All Elements in a Matrix**

Write a program to calculate and display the sum of all elements in a given m x n matrix.

* **Row-wise and Column-wise Sum of a Matrix**

Implement a program to find the sum of each row and each column in a 2D array.

* **Find the Largest and Smallest Element in a Matrix**

Write a program to find and display the maximum and minimum elements from a m x n matrix.

* **Transpose of a Matrix**

Write a C# program to find the **transpose** of a given m x n matrix (i.e., rows become columns and vice versa).

Jagged Array

* **Declare and Initialize a Jagged Array**

Write a C# program to declare and initialize a jagged array with different lengths for each row and display its elements.

* **Input and Display a Jagged Array**

Write a program that allows the user to input values for a jagged array and then display the array in matrix format.

* **Find the Row with the Maximum Sum**

Write a program to find the row in a jagged array that has the highest sum of its elements.

* **Reverse Each Row in a Jagged Array**

Implement a C# program that reverses the elements of each row in a jagged array.

* **Find the Maximum Element in Each Row**

Write a program that finds and displays the maximum element from each row of a jagged array.