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| **S. No** | **Question** | **Input and Output** |
|  | Write a program in C# Sharp to store elements in an array and print it. | Test Data:  Input 10 elements in the array:  element - 0 : 1  element - 1 : 1  element - 2 : 2  .......  *Expected Output* :  Elements in array are: 1 1 2 3 4 5 6 7 8 9 |
|  | Write a program in C# Sharp to read n number of values in an array and display it in reverse order. | Test Data :  Input the number of elements to store in the array :3  Input 3 number of elements in the array :  element - 0 : 2  element - 1 : 5  element - 2 : 7  *Expected Output*:  The values store into the array are:  2 5 7  The values store into the array in reverse are :  7 5 2 |
|  | Write a program in C# Sharp to find the sum of all elements of the array. | Test Data :  Input the number of elements to be stored in the array :3  Input 3 elements in the array :  element - 0 : 2  element - 1 : 5  element - 2 : 8  *Expected Output* :  Sum of all elements stored in the array is : 15 |
|  | Write a program in C# Sharp to find maximum and minimum element in an array. | Test Data :  Input the number of elements to be stored in the array :3  Input 3 elements in the array :  element - 0 : 45  element - 1 : 25  element - 2 : 21  *Expected Output* :  Maximum element is : 45  Minimum element is : 21 |
|  | Write a program in C# Sharp to separate odd and even integers in separate arrays. | Test Data :  Input the number of elements to be stored in the array :5  Input 5 elements in the array :  element - 0 : 25  element - 1 : 47  element - 2 : 42  element - 3 : 56  element - 4 : 32  *Expected Output*:  The Even elements are:  42 56 32  The Odd elements are :  25 47 |
|  | Write a program in C# Sharp to sort elements of array in ascending order. | Test Data :  Input the size of array : 5  Input 5 elements in the array :  element - 0 : 2  element - 1 : 7  element - 2 : 4  element - 3 : 5  element - 4 : 9  *Expected Output* :  Elements of array in sorted ascending order:  2 4 5 7 9 |
|  | Write a program in C# Sharp for forming a 2D array of size 3x3 and print the matrix. | Test Data :  Input elements in the matrix :  element - [0],[0] : 1  element - [0],[1] : 2  element - [0],[2] : 3  element - [1],[0] : 4  element - [1],[1] : 5  element - [1],[2] : 6  element - [2],[0] : 7  element - [2],[1] : 8  element - [2],[2] : 9  *Expected Output* :  The matrix is :  1 2 3  4 5 6  7 8 9 |
|  | Write a program in C# Sharp for addition of two Matrices of same size. | Test Data :  Input the size of the square matrix (less than 5): 2  Input elements in the first matrix :  element - [0],[0] : 1  element - [0],[1] : 2  element - [1],[0] : 3  element - [1],[1] : 4  Input elements in the second matrix :  element - [0],[0] : 5  element - [0],[1] : 6  element - [1],[0] : 7  element - [1],[1] : 8  *Expected Output*:  The First matrix is:  1 2  3 4  The Second matrix is :  5 6  7 8  The Addition of two matrix is  6 8  10 12 |
|  | Write a program in C# Sharp for multiplication of two square Matrices. | Test Data :  Input the rows and columns of first matrix : 2 2  Input the rows and columns of second matrix : 2 2  Input elements in the first matrix :  element - [0],[0] : 1  element - [0],[1] : 2  element - [1],[0] : 3  element - [1],[1] : 4  Input elements in the second matrix :  element - [0],[0] : 5  element - [0],[1] : 6  element - [1],[0] : 7  element - [1],[1] : 8  *Expected Output* :  The First matrix is :  1 2  3 4  The Second matrix is :  5 6  7 8  The multiplication of two matrix is :  19 22  43 50 |
|  | Write a program in C# Sharp to find transpose of a given matrix. | Test Data :  Input the rows and columns of the matrix : 2 2  Input elements in the first matrix :  element - [0],[0] : 1  element - [0],[1] : 2  element - [1],[0] : 3  element - [1],[1] : 4  *Expected Output* :  The matrix is :  1 2  3 4  The Transpose of a matrix is :  1 3  2 4 |