

C# Sharp Array Exercise

1. 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	<i>Expected Output :</i> Elements in array are: 1 1 2 3 4 5 6 7 8 9
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2. 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	<i>Expected Output:</i> The values store into the array are: 2 5 7 The values store into the array in reverse are : 7 5 2
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3. 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	<i>Expected Output :</i> The values store into the array are: 2 5 8 Sum of all elements stored in the array is : 15
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4. Write a program in C# Sharp to **copy** the elements one array into another array.

Test Data : Input the number of elements to be stored in the array :3 Input 3 elements in the array : element - 0 : 15 element - 1 : 10 element - 2 : 12	<i>Expected Output:</i> The elements stored in the first array are : 15 10 12 The elements copied into the second array are : 15 10 12
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5. Write a program in C# Sharp to count a total number of **duplicate** elements 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 : 5 element - 1 : 1 element - 2 : 1	<i>Expected Output :</i> Total number of duplicate elements found in the array is : 1
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6. Write a program in C# Sharp to print all **unique elements** 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 : 1 element - 1 : 5 element - 2 : 1	<i>Expected Output :</i> The unique elements found in the array are : 5
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7. 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	<i>Expected Output :</i> The values store into the array are: 45 25 21 Maximum element is : 45 Minimum element is : 21
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8. 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	<i>Expected Output:</i> The values store into the array are: 25 47 42 The Even elements are: 42 56 32 The Odd elements are : 25 47
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9. Write a program in C# Sharp to sort elements of array in **ascending and descending** 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	<i>Expected Output :</i> The values store into the array are: 2 7 4 5 9 Elements of array in sorted ascending order: 2 4 5 7 9 Elements of the array in sorted descending order: 9 7 5 4 2
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10. Write a program in C# Sharp to **insert New value** in the array (sorted list).

Test Data : Input the size of array : 3 Input 3 elements in the array in ascending order: element - 0 : 5 element - 1 : 7 element - 2 : 9 Input the value to be inserted : 8	<i>Expected Output :</i> The exist array list is : 5 7 9 After Insert the list is : 5 7 8 9
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