

Q1. C++ Program To reverse an array elements entered by user.

Q2. C++ Program to Sort an Array Elements in Ascending Order.

Q3. C++ Program for Union of Two Unsorted Arrays and return sorted array.

Q4. C++ Program to Find Even & Odd Elements in Array.

Q5. C++ Program to Find Duplicate Elements in Array.

Q6. Write a program that checks if the array is a magic square. This means that it must be square, and that all row sums, all column sums, and the two diagonal-sums must all be equal.

Q7. Write a program to which takes input from user to slip rows and column by given number of steps.

Example:

2D Array =

1	2	3
4	5	6
7	8	9

Enter 1 to slip row and 2 to slip column: 1

Enter number of row: 2

Enter number of steps: 2

Resultant array:

1	2	3
5	6	4
7	8	9

Q8. Write a program to multiply array A and B of order NxL and LxM.

Q9. Write user defined functions for square matrix to calculate

1. Left diagonal sum
2. Right diagonal sum

Q10. Write a user defined function named Upper-half() which takes a two dimensional array A, with size N rows and N columns as argument and prints the upper half of the array.

e.g.,

```

2 3 1 5 0          2 3 1 5 0
7 1 5 3 1          1 5 3 1
2 5 7 8 1  Output will be:  1 7 8
0 1 5 0 1          0 1
3 4 9 1 5          5

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