List of array and matrix programming exercises

- 1. Write a C program to read and print elements of array. using recursion.
- 2. Write a C program to print all negative elements in an array.
- √3. Write a C program to find sum of all array elements. using recursion.
- ✓4. Write a C program to find maximum and minimum element in an array. using recursion.
 - 5. Write a C program to find second largest element in an array.
- 5. Write a C program to count total number of even and odd elements in an array.
- Write a C program to count total number of negative elements in an array.
 - 8. Write a C program to copy all elements from an array to another array.
- 9. Write a C program to insert an element in an array.
- 10. Write a C program to delete an element from an array at specified position.
- 11. Write a C program to count frequency of each element in an array.
- 12. Write a C program to print all unique elements in the array.
- 13. Write a C program to count total number of duplicate elements in an array.
- 14. Write a C program to delete all duplicate elements from an array.
- 15. Write a C program to merge two array to third array.
- 16. Write a C program to find reverse of an array.
- 17. Write a C program to put even and odd elements of array in two separate array.
- 18. Write a C program to search an element in an array.
- 19. Write a C program to sort array elements in ascending or descending order.
- 20. Write a C program to sort even and odd elements of array separately.
- 21. Write a C program to left rotate an array.
- 22. Write a C program to right rotate an array.

List of matrix programming exercises

- 23. Write a C program to add two matrices.
- 24. Write a C program to subtract two matrices.
- 25. Write a C program to perform Scalar matrix multiplication.
- 26. Write a C program to multiply two matrices.
- 27. Write a C program to check whether two matrices are equal or not.
- 28. Write a C program to find sum of main diagonal elements of a matrix.
- 29. Write a C program to find sum of minor diagonal elements of a matrix.
- 30. Write a C program to find sum of each row and column of a matrix.
- 31. Write a C program to interchange diagonals of a matrix.
- 32. Write a C program to find upper triangular matrix.
- 33. Write a C program to find lower triangular matrix.
- 34. Write a C program to find sum of upper triangular matrix.
- 35. Write a C program to find sum of lower triangular matrix.
- 36. Write a C program to find transpose of a matrix.
- 37. Write a C program to find determinant of a matrix.

- 38. Write a C program to check Identity matrix.
- 39. Write a C program to check Sparse matrix.
- 40. Write a C program to check Symmetric matrix.