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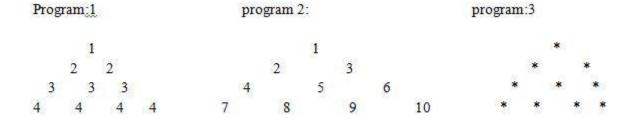
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List of important Programs for campus.

- 1. Write a program to find the reverse of a given string.
- 2. Write a program to check the given string is palindrome or not.
- 3. Write a program to reverse the given number.
- 4. A Fibonacci sequence is defined as follows:

The first and second terms in the sequence are 0 and 1. Subsequent terms are found by adding the preceding two terms in the sequence. Write a C program to generate the first n terms of the sequence.

- 5. Write a program to find the factorial of a given number.
- 6. Write a program to find the factorial of a given number using recursion.
- 7. Write a program to print the Fibonacci series using recursion.
- 8. Write a program finds the GCD of two given integers using recursion.
- 9. Write a C program to check the given number is prime number or not.
- 10. Write a function to interchange two integer values using call-by-value technique.
- 11. Write a function to interchange two integer values using call by reference technique.
- 12. Write a program to find the power (a, b) using recursion.
- 13. Write a program to print the following (pyramid of numbers).





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- 14. Write a program to find the gcd of the given 2 numbers.
- 15. Write a C program that uses functions to perform the following operations:
- i.To insert a sub-string in to given main string from a given position.
- ii.To delete n Characters from a given position in a given string.
- iii. To replace a character of string either from beginning or ending or at a specified location.
- 16. Write a program to swap two values without using temporary variable.
- 17. Write a program to check the given year is leap year or not.
- 18. Wap to implement linear search using recursion.
- 19. Wap implement linear search without using recursion.
- 20. Wap to implement Binary search using recursion.
- 21. Wap implement Binary search without using recursion.
- 22. Write a function to sort 1d integer array using Bubble sort.
- 23. Write a function to sort 1d integer array using Selection sort.
- 24. Write a function to sort 1d integer array using Insertion sort.
- 25. Write a function to sort 1d integer array using Merge sort.
- 26. Write a program to find both the largest and smallest number of an array of integers.
- 27. Write a program to find the smallest and largest element in a two dimensional array.
- 28. Write a C function to generate Pascal's triangle.
- 29. Write a function to convert a string into its opposite case.



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30. Write a program to print the grade of the student as follows:

If m>=60 print grade as FIRST

If m>=50 and m<60 print grade as SECOND

If m>=40 and m<50 print grade as THIRD

If m<40 and print grade as FAILED

- 31. Write a C program to find the sum of individual digits of a positive integer.
- 32. Wap for Matrix multiplication by checking compatibility.
- 33. Write a function which takes 1d integer array as an argument and return the maximum value.
- 34. Write a function which takes a matrix as an argument and return its transpose.
- 35. Write a program to copy the string into another string using pointers.
- 36. Write a function which takes a string as an argument and return its length.(using pointers).
- 37. Write a program to find 1+1/2+1/3+1/4... Value.
- 38. Wap to find NCr value.
- 39. Write a program to calculate mn value using do-while loop.
- 40. Write a program to check whether the given number is an Amstrong number or not.
- 41. Write a program to check whether the two strings are identical or not.
- 42. Wap to sort the characters in a given string.
- 43. Wap to check the given matrix is symmetric or not.
- 44. Write a program to illustrate usage of automatic, globel, extern, static and register variables.



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- 45. Write a program to find the sum of 1 d integer array(using malloc()).
- 46. Define a structure with the name complex which contains rael part and imaginary part.write the functions to add, subtract and multiply two complex numbers using returning as an complex number.
- 47. Define a structure with the name student which contains sno,sname,marks.wap to read and n students information and print the details of the students whose marks greater than or equal to average marks of the students.
- 49. Write a C program using structure to create a library catalogue with the following fields; Access number, author's name. Title of the book, year of publication, publisher's name, price.
- 50. Write a C program to compute the monthly pay of 100 employees using each employee's name, basic-pay. The DA is computed as 52% of the basic pay. Gross-salary (Basic-pay+DA). Print the employees name and gross salary.
- 51. Write a function to compare two structure variables.
- 52. Write a function to copy the contents of one student into another student record Of same.
- 53. Write a program to illustrate unions.
- 54. Explaining pointer to a structure variable with example.
- 55. Write a program to copy the contents of one file into another file.
- 56. Write a program to count the number of words, lines and characters in the given file.
- 57. Write a program to print the data of the file onto the monitor in reverse order.
- 58. Write a C program to reverse the first n characters in a file. (Note: The file name and n are specified on the command line).
- 59. Write a C program to open a pre-existing file and add information at the end of file. Display the contents of the file before and after appending.



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- 60. Write a function to sort 1d integer array using Quick sort.
- 61. Write a program to implement stack operations using Arrays.
- 62. Write a program to implement Queue operations using Arrays.
- 63. Write a program to implement stack operations using Linked List.
- 64. Write a program to implement Queue operations using Linked List.
- 65. Write a program to perform Singly Linked List Operations(create,insert,delete,traversing).
- 66. Write a program to perform Doubly Linked List Operation(create,insert,delete,traversing).
- 67. Write a Function to reverse the single linked list.
- 68. Write a program to perform Binary Tree Operations (create, insert, delete, traversing).
- 69. Write a Function to combine two singly linked lists.
- 70. Write a program to implement circular Queue Operations.
- 71. Write a c program for addition of two matrices.
- 72. Write a c program for subtraction of two matrices
- 73. Write a c program for multiplication of two matrices.
- 74. Write a c program to find out sum of diagonal element of a matrix.
- 75. Write a c program to find out transport of a matrix.
- 76. Write a c program for scalar multiplication of matrix.
- 77. C program to find inverse of a matrix



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- 78. Lower triangular matrix in c
- 79. Upper triangular matrix in c
- 80. Strassen's matrix multiplication program in c
- 81. C program to find determinant of a matrix
- 82. Write a c program to find out largest element of an array.
- 83. Write a c program to find out second largest element of an unsorted array.
- 84. Write a c program to find out second smallest element of an unsorted array.
- 85. Write a c program which deletes the duplicate element of an array.
- 86. Write a c program for delete an element at desired position in an array.
- 87. Write a c program for insert an element at desired position in an array.
- 88. C program to find largest and smallest number in an array
- 89. C program for Strong number.
- 90. C Program for Perfect number.
- 91. Write a c program to solve quadratic equation.
- 92. C program to print hello world without using semicolon
- 93. Write a c program for Floyd's triangle.
- 94. Write a c program which produces its own source code as its output
- 95. Write a c program to add two numbers without using addition operator.
- 96. Write a c program to subtract two numbers without using subtraction operator.
- 97. Program in c to print 1 to 100 without using loop



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- 98. Write a c program to convert octal number to hexadecimal number.
- 99. C program to convert each digits of a number in words
- 100. Write a c program to convert decimal number to octal number.