

SL NO	PROGRAM	PAGE																								
1	Write a program to find the second largest number without using an array																									
2	Write a C program to find the smallest of three integers, without using any of the comparison operators.																									
3	Program to find that entered year is leap year or not.																									
4	Program to find gross salary of an employee looking at the following table <table><tr><td>Salary</td><td>TA</td><td>DA</td><td>PF</td><td>GROSS</td><td>NET</td></tr><tr><td>>10000</td><td>2% of salary</td><td>3% of salary</td><td>50% of salary</td><td>?</td><td>?</td></tr><tr><td>>5000</td><td>0</td><td>2% of salary</td><td>50% of Salary</td><td>?</td><td>?</td></tr><tr><td><5000</td><td>0</td><td>0</td><td>0</td><td>?</td><td>?</td></tr></table>	Salary	TA	DA	PF	GROSS	NET	>10000	2% of salary	3% of salary	50% of salary	?	?	>5000	0	2% of salary	50% of Salary	?	?	<5000	0	0	0	?	?	
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>10000	2% of salary	3% of salary	50% of salary	?	?																					
>5000	0	2% of salary	50% of Salary	?	?																					
<5000	0	0	0	?	?																					
5	Program to calculate L.C.M of two numbers.																									
6	Program to convert temperature from degree centigrade to Fahrenheit.																									
7	Program to find the simple interest.																									
8	Program to find area and circumference of circle.																									
9	Program to swap of two no's without using third variable.																									
10	Program to calculate average of 3 subjects & find the result. <table><tr><td>AVG</td><td>RESULT</td></tr><tr><td>>=60</td><td>1st</td></tr><tr><td>>=40</td><td>2nd</td></tr><tr><td>>=35</td><td>3d</td></tr><tr><td><35</td><td>Failed</td></tr></table> <p>Each paper carries more than 35 marks</p>	AVG	RESULT	>=60	1 st	>=40	2 nd	>=35	3d	<35	Failed															
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11	Program to find area of triangle																									
12	Program to calculate age if birth date is given.																									
13	Program to calculate the power of a number																									
14	Program to find the roots of quadratic equation in c using switch case?																									
15	Program that will round a floating-point number to an indicated decimal place no. 17.457 would yield the value 17.46 when it is rounded off to 2 decimal places.																									

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- 17 Program to print a table of any number.
- 18 Write a C function that has three inputs which are integers. The function returns true if the first number raised to the power of the second number equals the third number.
- ✓ 19 Program to reverse a given number.
- 20 Program to reverse a given number using Function Recursion/Stack
- 21 Program to display all the numbers from 1 to 10 using Function Recursion/Stack
- 22 Program to calculate the factorial of a number.
- 23 Program to calculate the factorial of a using Function Recursion/Stack.
- ✓ 24 Program to calculate the sum digits of a number.
- 25 Program to calculate the sum digits of a number using Function Recursion/Stack.
- 26 Program to check the number is strong number or not.
- 27 Program to calculate the prime factors of a numbers.
- 28 Program to check given number is Armstrong or not.
- ✓ 29 Program to check given number is palindrome or not.
- 30 Program to check given number is palindrome or not using Function Recursion/Stack
- ✓ 31 Program to add between any two numbers using loop.
- 32 Program to calculate g.c.d of any two numbers.
- 33 Program to calculate g.c.d of any two numbers using Function Recursion/Stack
- 34 Program to calculate l.c.m of two numbers.
- 35 Program to display all numbers those are not appear in Fibonacci series.
- 36 Program to calculate string palindrome.
- 37 Program to check the number is prime number or not.
- 38 Program to check the number is perfect number or not.
- 39 Program to find generic root of a number.

40	Insert an element in an array at desired position	
41	Program to display sum of series $1+1/2+1/3+\dots+1/n$.	
42	Program to display series and find sum of $1+3+5+\dots+n$.	
43	Program to calculate the sum of the series : $1 * 1 + 2 * 2^2 + 3 * 3^3 + 4 * 4^4 + n * n^n$	
44	Program to calculate sum of the series $1+2+3+\dots+n$	
45	Program to calculate the sum of the series : $1 * 1! + 2 * 2! + 3 * 3! + \dots N * n!$	
46	Given the following series: 1 2 5 26 677 Such that the nth value equals to $(n-1)^2 + 1$ and the first value is 1. Write a recursion function named f to compute the nth value. Use for loop to print the values of first 6 values.	
47	Remove an element from any position of an array	
48	Program to find largest element in an array.	
49	Program to find second largest element in an array.	
50	Program to remove duplicate elements in an array.	
51	Program to convert decimal to binary.	
52	Program to copy contents of one string to another string without using strcpy function	
53	Program to convert upper case to lower case of a given string	
54	Program to add a sub-string in a string.	
55	Program to find the largest number in a 2D-array using pointer	
56	Program to count number of vowels, digits, characters and word present in string.	
57	Program to add between two matrixes.	
58	Program to multiply between two matrixes.	
59	Program to transpose a matrix.	
60	Write a program which takes two integer arrays from user. Merge both the array in a single sorted array in acceding order.	
61	Program for a sparse matrix	
62	Program for bubble sort.	
63	Program for selection sort.	
64	Program for insertion sort.	
65	program for sequential search using array	
66	Program for binary search using array	
67	Program to find out largest word in a string.	
68	An array contains only 0 and 1 in any order. Write the algorithm to arrange all 0 and 1 in separate form. See the example : 10010011 -> 0000 1111	

- 69 Write the code for the series eg: If a3b2c4 ..is taken then output should be aaabbccccc
- 70 Alter elements in each two elements in an array
- 71 Alter elements in middle of an array
- 72 Write a program to convert given ip address 192.168.3.35 into 192.168.003.035
- 73 Write a C function that computes that total sum of a 2D array of size 6 by 5.
- 74 Call a function according to the user requirement ,but without using any control structure
- 75 Declare a 2-dimensional array a of integers of size 4 x 4.. Treat it as matrix. Write a c program to test if this matrix is symmetric.
- 76 Write a c program to create a file for RD account in a bank assuming the file structure as RD Account no, installment amount and number of installments
- 77 Write a program to print a specified number of records from the beginning of a file.
- 78 Write a file copy program which copies the file "prog.c" to "prog.old"
- 79 Write a program to compare two files specified by the user, displaying a message indicating whether the files are identical or different using command line.
- 80 Write a program to count no. of lines, words and characters present in a file.
- 81 Write a program for the following example
"ddddccccccccaaabbbbbbbcccc" into "5d9a3r7f";
- 82 If a text file contains mobile numbers with a semicolon (;) separated format, write program to remove all mobile numbers from a file.
- 83 Write a program to find and replace in a text file
- 84 Write a program to spit a file into two different files
- 85 Write a program to read last n characters from a file.
- 86 Write a program to read a given file and convert all words such that the first letter of every word is in uppercase and all the remaining letters are in lowercase.
- 87 Write a program to alternate every two nodes in a linked list
- 88 Write the program in an efficient way to find the middle of the linked list
- 89 Write a program to find the nth to last element of a singly linked list.
- 90 Write a program reverse a linked list
- 91 Program to print the following star patterns
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- 92
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93	<p>Program to print the following patterns</p> <pre> ***** *** *** ** ** * *</pre>
94	<p>Program to print the following number patterns</p> <pre> 1 1 2 1 2 3 1 2 3 4</pre>
95	<p>Program to print the following number patterns</p> <pre> 1 121 12321 1234321 123454321</pre>
96	<p>Program to print the following number patterns</p> <pre> 1 232 34543 4567654 567898765</pre>
97	<p>Program to print the elements of an array in spiral order</p> <p>Input:</p> <pre> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16</pre> <p>Output:</p> <pre> 1 2 3 4 8 12 16 15 14 13 9 5 6 7 11 10</pre>
98	<p>Write a C program that prints below shape using nested loop</p> <pre> *</pre>
99	<p>Add between any two numbers using command line argument</p>
100	<p>Using command line argument display the contents of a file</p>