

### Basic

1. Write a c program to check given number is perfect number or not.  
(if sum of its factors is equals to no)
2. Write a c program to check given number is Armstrong number or not.  
(if sum of cube of digit of a number is equals to number)
3. Write a c program to check given number is prime number or not.
4. Write a c function program to reverse any number.
5. Write a c program to check given number is strong number or not.  
(if sum of its digits factorial is equal to no)
6. Write a c program to find out sum of digit of given number.
7. Write a c program to check given number is palindrome number or not.

### String

8. Write a c program to check given string is palindrome number or not.
9. Write a c program to find out power of number.
10. Write a c program to add two numbers without using addition operator.
11. Write a c program to subtract two numbers without using subtraction operator.
12. Write a c program to find largest among three numbers using binary minus operator.
13. Write a c program to find largest among three numbers using conditional operator
14. Write a c program to find out generic root of any number.
15. Write a c program to solve quadratic equation.
18. Write a c program which passes structure to function.
16. Write a c program which passes one dimension array to function.
17. Write a c program which passes two dimension array to function.
19. Write a c program for Floyd's triangle.
20. Write a c program to print Pascal triangle.
21. Write a c program to generate multiplication table.
22. Write a c program to get factorial of given number.
23. Write a c program to find out prime factor of given number.
24. Write a c program to find out NCR factor of given number.
25. Write a c program to print Fibonacci series of given range.
26. Write a c program to print ASCII value of all characters.
27. Write a c program to check given year is leap year or not.
28. Write a c function program which takes password from user.
29. Write a scanf function in c which accept sentence from user.
30. Write a scanf function in c which accept paragraph from user.
31. Write a c program to print the all prime numbers between 1 to 300.

### L.C.M and H.C.F.

32. Write a c program to find out L.C.M. of two numbers.
33. Write a c program to find out H.C.F. of two numbers.
34. Write a c program to find out G.C.D. of two numbers.

### Swapping

35. Write a c program to swap two numbers.
35. Write a c program to swap two numbers without using third variable.
36. Write a c program for swapping of two arrays.
37. Write a c program for swapping of two string.

### Conversion

38. Write a c program to convert decimal number to hexadecimal number.
39. Write a c program to convert hexadecimal number to decimal number.
40. Write a c program to convert decimal number to octal number.
41. Write a c program to convert octal number to decimal number.
42. Write a c program to convert binary number to decimal number.
43. Write a c program to convert decimal number to binary number.
44. Write a c program to convert farehnite to centigrade.
45. Write a c program to convert centigrade to farehnite.
46. Write a c program to convert binary number to octal number.
47. Write a c program to convert binary number to hexadecimal number.
48. Write a c program to convert hexadecimal number to binary number.
49. Write a c program to convert octal number to binary number.

### String

1. Write a c program to convert the string from upper case to lower case.
2. Write a c program to convert the string from lower case to upper case.
3. Write a c program to delete the all consonants from given string.
4. Write a c program to count the different types of characters in given string.
5. Write a c program to sort the characters of a string.
6. Write a c program for concatenation two strings without using string.h header file.
7. Write a c program to find the length of a string using pointer.
8. Write a c program which prints initial of any name.
9. Write a c program to print the string from given character.

### Matrix

1. Write a c program for addition of two matrices.
2. Write a c program for subtraction of two matrices
3. Write a c program for multiplication of two matrices.
4. Write a c program to find out sum of diagonal element of a matrix.
5. Write a c program to find out transpose of a matrix.

### File

1. Write a c program to open a file and write some text and close its.
2. Write a c program to delete a file.
3. Write a c program to copy a file from one location to other location.
4. Write a c program to copy a data of file to other file.

5. Write a c program which display source code as a output.
6. Write a c program which writes string in the file.
7. Write a c program which reads string from file.
8. Write a c program which writes array in the file.
9. Write a c program which concatenate two file and write it third file.
10. Write a c program to find out size of any file.
11. Write a c program to know type of file.
12. Write a c program to know permission of any file.
13. Write a c program to know last date of modification of any file.
14. Write a c program to find size and drive of any file.

### Complex number

1. Write a c program for addition and subtraction of two complex numbers.
2. Write a c program for multiplication of two complex numbers.
3. Write a c program for division two complex numbers.

### Series

1. Write a c program to find out the sum of series  $1 + 2 + \dots + n$ .
2. Write a c program to find out the sum of series  $1^2 + 2^2 + \dots + n^2$ .
3. Write a c program to find out the sum of series  $1^3 + 2^3 + \dots + n^3$ .
4. Write a c program to find out the sum of given A.P.
5. Write a c program to find out the sum of given G.P.
6. Write a c program to find out the sum of given H.P.
7. Write a c program to find out the sum of series  $1 + 2 + 4 + 8 \dots$  to infinity.

### Array

1. Write a c program to find out largest element of an array.
2. Write a c program to find out second largest element of an unsorted array.
3. Write a c program to find out second smallest element of an unsorted array.
4. Write a c program which deletes the duplicate element of an array.
5. Write a c program for delete an element at desired position in an array.
6. Write a c program for insert an element at desired position in an array.

### Sorting

1. Write a c program for bubble sort.
2. Write a c program for insertion sort.
3. Write a c program for selection sort.
4. Write a c program for quick sort.
5. Write a c program for heap sort.
6. Write a c program for merge sort.
7. Write a c program for shell sort.

### Recursion

1. Write a c program to find factorial of a number using recursion.
2. Write a c program to find GCD of a two numbers using recursion.

3. Write a c program to find out sum digits of a number using recursion.
4. Write a c program to find power of a number using function recursion.
5. Write a c program to reverse any number using recursion.

### Size of data type

1. Write a c program to find the size of int without using sizeof operator.
2. Write a c program to find the size of double without using sizeof operator.
3. Write a c program to find the size of structure without using sizeof operator.
4. Write a c program to find the size of union without using sizeof operator.

### Using pointer

1. Write a c program for concatenation two string using pointer.

### Searching

1. Write a c program for linear search.
2. Write a c program for binary search.
3. Write a c program for binary search using recursion.

### Area and volume

1. Write a c program to find the area of circle.
2. Write a c program to find the area of any triangle.
3. Write a c program to find the area of rectangle.
5. Write a c program to find the area of trapezium.
6. Write a c program to find the area of right angle triangle.
7. Write a c program to find the volume and surface area of cube.
8. Write a c program to find the surface area and volume of a cone.
9. Write a c program to find the perimeter of a circle, rectangle and triangle.

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