Question Based On

C

Programmig Language

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LEARN & GROW

Basic Question

- C Program to Print "Hello, World!".

- C Program to Add Two Integers.

- C Program to Swap Values of Two Variables.

- C Program to Multiply two Floating Point Numbers.

- C Program to perform all arithmetic operations.

- C Program to convert feet to meter.

- C Program to convert celcius to farenheit.

- C Program to convert farenheit to celcius.

- C Program to find the Size of data types.

- C Program to Print ASCII Value.

- C Program to Calculate Area of Circle.

- C Program to Calculate Area of Square.

- C Program to Calculate Area of Rectangle.

- C Program to convert days to years, weeks and days.

String

- Write C program to concatenate two strings.

- Write C program to find string length.

- Write C program to convert a string to Lower case.

- Write C program to convert a string to Upper case.

- Write C program to change string to upper case without strupr.

- Write C program to change string to lower case without strlwr.

- Write C program to reverse a string enter by user.

- Write C program to count number of alphabets, digits and special characters in string.

- Write C program to compare two strings using strcmp.

Conditional Statement

- C Program to check whether an integer entered by the user is odd or even.

- C Program to find the largest number among three number.

- C Program to Find the Largest Number using Conditional Operator.

- C Program to find the Largest among Three Variables using Nested if.

- C program to check leap year using conditional Operator.

- C program to check alphabets using conditional operator.

- C program to check number is positive, negative or zero.

- C program to check uppercase or lowercase alphabets.

- C program to check entered character vowel or consonant.

- C program to check whether a character is alphabet, digit or special character.

- C program to print day name of week.

- C program to accept two integers and check whether they are equal or not.

- C program to detrermine a candidate's age is eligible for casting the vote or not.

- C program to find the eligibility of admission for an engineering course based on the criteria.

- C program to calculate the total marks, percentage and division of student.

- C program to enter month number and print number of days in month.

- C program to count total number of notes in entered amount.

- C program to check whether a triangle can be formed by the given value for the angles.

Loop

- Write C program to print alphabets from a to z.

- Write C program to print ASCII values of all characters.

- Write C program to print multiplication table of a given number.

- Write C program to print all natural numbers in reverse order.

- Write C program to print sum of digits enter by user.

- Write C program to find sum of even numbers between 1 to n.

- Write C program to find sum of odd numbers between 1 to n.

- Write C program to swap first and last digit of a number.

- Write C program to find the sum of first and last digit of any number.

- Write C program to find first and last digit of any number.

- Write C program to calculate product of digits of a number.

- Write C program to reverse a number using while & for loop.

- Write C program to calculate power using while & for loop.

- Write C program to find factorial of any number.

- Write C program to check whether a number is Armstrong number or not.

- Write C program to find Armstrong numbers between 1 to n.

- Write a C program to calculate compound Interest.

- Write a C program to check a enter number is Prime number or not using while & for loop.

- Write a C program to check whether a number is palindrome or not.

- Write C program to print number in words.

- Write C program to find HCF of two numbers.

- Write C program to find LCM of two numbers.

Switch – Case

- Write C program to print number of days in a month using switch case.

- Write C program to print day of week name using switch case.

- Write C program to create calculator using switch Statement.

- Write C program to check even or odd number using switch case.

- Write C program to check vowel or consonant using switch case.

- Write C program to print gender (Male/Female) program according to given M/F.

- Write C Program to find maximum number using switch case.

Function

&

Recursion

- **Write C program to check even or odd using functions.**

- **Write C to check prime and armstrong numbers using function.**

- **Write C program to find cube of a number using function.**

- **Write C Program to convert binary number to decimal.**

- **Write C Program to convert decimal number to binary using function.**

- Write C program to find Length of the String by passing String/Character.

- Write C program to print all strong numbers between 2 numbers.

- Write C program to find prime numbers in given range using functions.

- Write C program to find diameter, circumference and area of circle using function.

- Write C program to print perfect numbers between given interval using function.

- Write C program to find power of a number using recursion.

- Write C program to find sum of natural numbers in given range using recursion.

- Write C program to print even or odd numbers in given range using recursion.

- Write C program to find reverse of a number using recursion.

- Write C program to find LCM of two numbers using recursion.

- **Write C program to find HCF of two numbers using recursion.**

- **Write C program to print elements of array using recursion.**

- **Write C program to find sum of array elements using recursion.**

- **Write C program to generate nth fibonacci term using recursion.**

- **Write C program to find factorial of a number using recursion.**

- **Write C program to check palindrome number using recursion.**

- **Write C program to find maximum and minimum elements in array using recursion.**

Pointer

- Write C program to swap two numbers using pointers.

- Write C program to add two numbers using pointers.

- Write C program to **Sum of Array Elements using Pointers.**

- Write C program to find length of string using pointer.

- Write C program to copy one string to another string using pointer.

- Write C program to concatenate two strings using pointer.

- Write C program to print the elements of the array in reverse order using a pointer.

Array

- Write a C program to print all negative elements in an array.

- Write C program to count total number of negative elements in array.

- Write C program to read and print elements of array.

- Write C program to find sum of all elements of an array.

- Write C program to count even and odd elements in an array.

- Write C program to find maximum and minimum element in array.

- Write C program to insert an element in array.

- Write C program to print all unique element in an array.

- Write C program to sort an array in ascending order.

- Write C program to copy all elements of one array to another.

- Write C program to count number of each element in an array.

- Write C program to delete all duplicate elements from an array.

- Write C program count total duplicate elements in an array.

- Write C program to merge two sorted array.

- Write C program to put even and odd elements of array in two separate array.

- Write C program to find reverse of an array.

- Write C program to left rotate an array.

- Write C program to right rotate an array.

Matrix

- Write C Program to Add Two Matrices.

- Write C Program to Multiply Two Matrices.

- Write C Program to check whether two matrices are equal or not.

- Write C Program to Find the Transpose of a given Matrix.

- Write C Program to Find sum of each row and columns of a matrix.

- Write C Program to Find the Frequency of Odd & Even Numbers in the given Matrix.

- Write C Program C program to interchange diagonals of a matrix.

Structure

- **Write a C program to Store Information in Structure and Display it.**

- **Write a C Program to add two distances in inch-feet system using Structure.**

- **Write a C Program to Calculate Difference Between Two Time Periods.**

- **Write a C program to demonstrate example of Nested Structure.**

- **Write a C program to demonstrate example of structure pointer.**

- **Write a C program to calculate percentage of student using structure.**

- **Write a C program to create Book Details using structure.**

Pattern

Print the below Pattern :-

```
*   *   *   *   *

*   *   *   *   *

*   *   *   *   *
```

Solid Rectangle

Hollow Rectangle

```
*   *   *   *   *

*                   *

*   *   *   *   *
```

```
*
* *
* * *
* * * *
* * * * *
* * * * * *
```

Half Pyramid

```
* * * * * *
* * * * *
* * * *
* * *
* *
*
```

Inverted
Half Pyramid

```
* * * * * *
*         *
*       *
*     *
* *
*
```

Hollow Inverted
Half Pyramid

```
        *
      *   *
    *   *   *
  *   *   *   *
*   *   *   *   *
*   *   *   *   *
```

Full Pyramid

```
* * * * * *
  *   *   *   *
    *   *   *
      *   *
        *
```

Inverted Full Pyramid

```
          *
        *   *
      *       *
    *           *
  *               *
*   *   *   *   *   *
```

Hollow Full Pyramid

```
1                    1 2 3 4 5            1
1 2                  1 2 3 4              1 2
1 2 3                1 2 3                1     3
1 2 3 4              1 2                  1         4
1 2 3 4 5            1                    1 2 3 4 5
```

Half Pyramid   Inverted   Hollow
                        Half Pyramid   Half Pyramid

```
        1                        1            1 2 3 4 5
      2 3 2                    1   2          2       5
    3 4 5 4 3                1       3        3     5
  4 5 6 7 6 5 4            1           4      4 5
5 6 7 8 9 8 7 6 5        1 2 3 4 5            5
```

Full Pyramid   Hollow Full Pyramid   Hollow Inverted
                                                Half Pyramid

```
1                        A
1 2 1                    A B A
1 2 3 2 1                A B C B A
1 2 3 4 3 2 1            A B C D C B A
1 2 3 4 5 4 3 2 1        A B C D E D C B A
```

```
        1                        ********1********
      1 2 1                      *******2*2*******
    1 2 3 2 1                    ******3*3*3******
  1 2 3 4 3 2 1                  *****4*4*4*4*****
1 2 3 4 5 4 3 2 1                ****5*5*5*5*5****
```

Different types of Palindrome Pyramid Patterns

Practice Leads To Perfection And Perfection Leads To Succession.