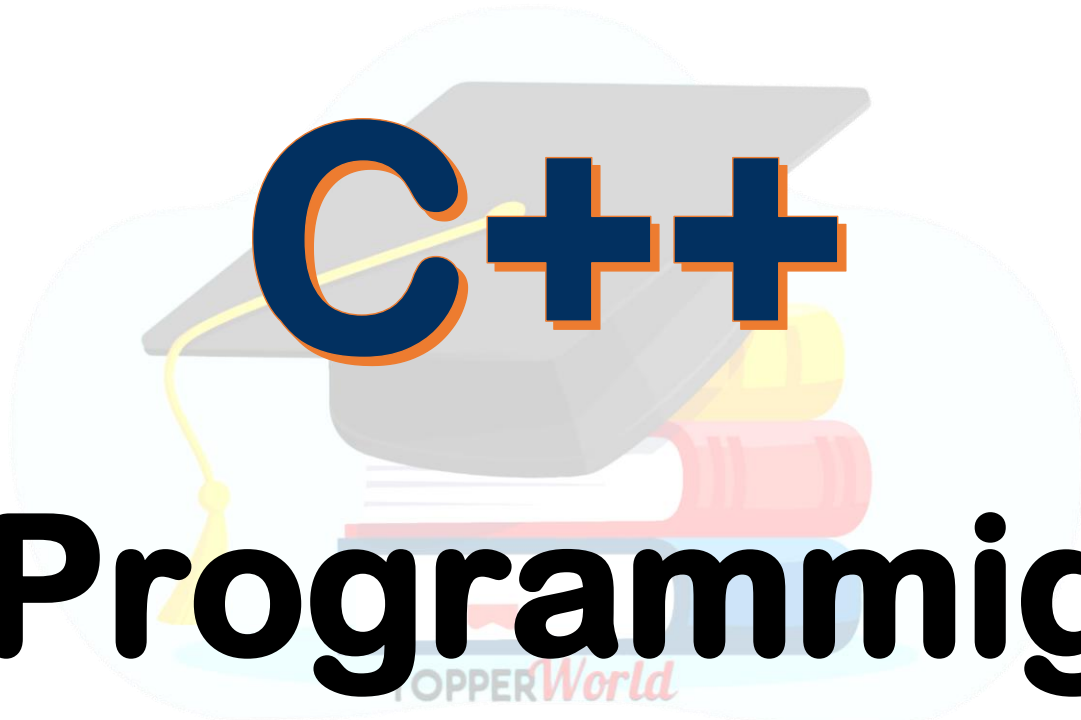


Question Based On



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 determine 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.**



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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.**

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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.**

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

```

Half Pyramid

```

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

```

Inverted
Half Pyramid

```

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

```

Hollow
Half Pyramid

```

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

```

Full Pyramid

```

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

```

Hollow Full Pyramid

```

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

```

Hollow Inverted
Half Pyramid

```

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

```

```

A
A B A
A B C B A
A B C D C B A
A B C D E D C B A

```

```

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

```

```

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

```

Different types of Palindrome Pyramid Patterns



**Practice Leads To
Perfection And Perfection
Leads To Succession.**