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Basic Simple C Programs

1. C Program to Display The Size of Different Data Types

Data Type	Size (bytes)	Range	Format Specifier
int	2	-2,147,483,648 to 2,147,483,647	%d
long int	4	-2,147,483,648 to 2,147,483,647	%ld
float	4	1.2E-38 to 3.4E+38	%f
double	8	1.7E-308 to 1.7E+308	%lf
long double	12	3.4E-4932 to 1.1E+4932	%Lf
char	1	-128 to 127	%c

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2. Write a program to accept values of two numbers and print their addition, subtraction, multiplication, division.

Addition: x + y;

Subtraction: x - y;

multiplication: x * y;

division: x / y;

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3. Write a program to accept a number from user and print it's square & cube in C language

Square: x * x

Cube: x * x * x

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4. Write a program to accept two values a & b and interchange their values in C language

Before Interchange value: a = 12; b = 15

After Interchange value: a = 15; b = 12

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5. Write a program to accept roll no & marks of 3 subjects of a student, Calculate total 3 subjects and average in c language

$Average : Sanskrit + Hindi + Math/3$

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6. Print following outputs: http:\www.kodegod.com\new in C language

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7. Area and Circumference of a Circle

Area of the Circle is: πr^2

Circumstances of the Circle are: $2\pi r$

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8. Print Ascii Value of the Character

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9. Write a program to print area of a triangle

Triangle = $0.5 * Base * Height$

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10. Convert a Person's Name in Abbreviated

Name: Ghanendra Pratap Singh

Abbreviated Name: G. P. Singh

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11. C Program For Calculate Simple Interest

Simple Interest = (Principal Amount * Rate of Interest * Time) / 100;

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12. WAP. to Calculate Gross Salary of an Employee whose dearness allowance is 40% of basic salary and house rent allowance is 20% of basic salary.

Gross Salary = Basic_Salary + HRA + Other_Allowance.

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13. Calculate Percentage of 5 Subjects

percentage = $((sanskrit + hindi + math + english + accountancy)/500) * 100$

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14. C Program For Converting Temperature Celsius Into Fahrenheit

Fahrenheit = $((9/5) * Celsius) + 32$ or you can use `1.8` in place of `9/5`

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15. First Three Powers (N, N * N, N * N * N) Without Using Power Function

Three Powers: (N, N * N, N * N * N)

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16. Write a C program input a number to compute the perimeter and area of a rectangle.

Perimeter of the rectangle = $2(height + width)$;

Area of Rectangle = $height * width$;

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17. Write a C program to accept 3 characters and print the sum of their ascii.

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18. Write a C program to convert specified days into years, weeks and days.

Note: Ignore leap year.

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19. Write a C program to calculate the distance between the two points

Formula:- $\sqrt{(x_1 - x_2)^2 + (y_1 + y_2)^2}$

Test Data :

```
Input x1: 25
Input y1: 15
Input x2: 35
Input y2: 10
```

Expected Output:

```
Distance between the said points: 11.1803
```

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20. Write a C program to read an amount (integer value) and break the amount into smallest possible number of bank notes.

Test Data :

```
Input the amount: 375
```

Expected Output:

```
There are:
3 Note(s) of 100.00
1 Note(s) of 50.00
1 Note(s) of 20.00
0 Note(s) of 10.00
1 Note(s) of 5.00
0 Note(s) of 2.00
0 Note(s) of 1.00
```

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21. Write a C program to convert a given integer (in seconds) to hours, minutes and seconds.

Test Data :

```
Input seconds: 25300
Expected Output:
There are:
H:M:S - 7:1:40
```

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22. Write a C program to convert a given integer (in millimeters) to kilometers, meters and centimeters.

```
1 centimeter = 10 millimeters.
1 meter = 100 centimeters.
1 meter = 1,000 millimeters.
1 kilometer = 1,000 meters.
```

Test Data :

```
Input no. of days: 2535220
```

Expected Output:

```
2.53 kilometers
2535.22 Meters
253522.0 Centimeters
```

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23. Write a C program that accepts two item’s weight (floating points' values) and number of purchase (floating points' values) and calculate the average value of the items.

Test Data :

```
Weight - Item1: 15
No. of item1: 5
Weight - Item2: 25
No. of item2: 4
```

Expected Output:

```
Average Value = 19.444444
```

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24. Program to show swap of two number

```
i) using three variable

ii) without using third variable.

iii) swap within a single line.
```

Test Data :

```
Input two number a and b: 5 10
```

Expected Output:

```
a = 10 and b = 5
```

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25. Write a program to display last digit of a number. Number is entered through keyboard.

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26. Write a program to calculate sum of the digits of three digit number.

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27. Write a program to print profit and profit percentage. Selling price and cost price is given by user.

formula :-

$$profit = selling - cost$$

$$profitPercentage = \frac{profit}{cost} * 100$$

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28. Input a number and change the sign.

Test Data:

```
input number : 10
input number : -15
```

Expected Output:

```
Sign Changed number = -10
Sign Changed number = 15
```

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29. Input two number and display quotient and remainder.

Test Data:

```
input number : 98 4
```

Expected Output:

```
quotient = 24
remainder = 2
```

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30. Input a 5 digit number and calculate the sum of last and first digit number.

Test Data:

```
number : 12345
```

Expected Output:

```
sum = 6
```

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31. Input a 3 digit number and reverse it.

Test Data:

```
number = 123
```

Expected Output:

```
reverse number = 321
```

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32. WAP to calculate the remainder of 2 numbers without using % operator.

Test Data:

```
Enter 2 number: 10 5
```

Expected Output:

```
Remainder = 0
```

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33. WAP. to SWAP (interchange) three numbers.

```
i) using four variable

ii) without using four variable.

iii) swap within a single line.
```

Test Data:

```
Enter 3 number : 5 10 15
```

Expected Output:

```
changed number = 15 5 10
```

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34. WAP. to Print the range of a number. E.g. number 78 is between 70 and 79, 102 is between 100 and 109.

Test Data:

```
Enter a number : 78

Enter a number : 102
```

Expected Output:

```
78 number is between 70 and 79

102 number is between 100 and 109
```

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35. WAP. to merge three number. E.g. a= 1, b= 2, c = 8 is 128.

Test Data:

```
Enter 3 number: 1 2 3
```

Expected Output:

```
merge number = 123
```

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36. WAP. to input paisa and convert it into rs. and paisa

Test Data:

```
input paisa: 1550
```

Expected Output:

```
15 rs. 50 paisa
```

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If/Else Statement

1. Write a program to accept a number and print if the number is Positive/Negative in C language

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2. Write a program to accept a number from user and print if it is even or odd in C language

HINT: Even number is divisible by 2 and generates a remainder of 0

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3. Write a program to find greater between two numbers.

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4. Write a program to accept three numbers from user and print them in ascending and descending order in C language

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5. Write a program to calculate roots of a quadratic equations in C language

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6. Write a program to accept roll number ,and marks for three subjects, print total marks and average, also print grade by considering following conditions

Avg >= 60 Grade A

Avg < 60, Avg >= 50 Grade B

Avg < 50, Avg >= 40 Grade C Grade F.

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7. Write a Program to accept user's marital status, gender and age to check if he/she is eligible for marriage or not.

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8. Check Character Is Vowel or Consonant

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9. A Character Is an Alphabet or Not

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10. C Program to Check Uppercase or Lowercase or Digit or Special Character

Hint: ASCII value of the digit is between 48 to 58 and lowercase characters have ASCII values in the range of 97 to122, and uppercase is between 65 and 90.

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11. Leap Year Program in C Using IF-ELSE

Leap Year Examples:

- 1992: Leap Year
- 2002: Not a Leap Year
- 2016: Leap Year
- 2100: Not a Leap Year

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12. Given Date Month and the Year Is Correct or Not Using If-Else

Valid Date Examples:

- 09-03-2002
- 01-01-2023
- 31-12-2025

Invalid Date Examples:

- 29-02-2023
- 32-12-2023
- 31-03-2023

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13. While purchasing certain items, a discount of 10% is offered if the quantity purchased is more than 1000. if quantity and price per item are input through the keyboard, write a program to calculate the total expenses.

Test Data:

```
Enter quantity and price per item: 1000  2
```

Expected Output:

```
Total expenses = 1800.00
```

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14. If cost price and selling price of an item is input through the keyboard, write a program to determine whether the seller has made profit or incurred loss. Also determine how much profit he made or loss he incurred.

Test Data:

```
Enter cost price and selling price: 50 100
```

Expected Output:

```
He incurred profit of Rs.50
```

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15. A five-digit number is entered through the keyboard. Write a program to obtain the reversed number and to determine whether the original and reversed numbers are equal or not.

Test Data:

```
Enter 5 digit number: 12345
```

Expected Output:

```
Reverse number = 54321
Reverse number is not equal to original number.
```

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16. Write a program to check whether a triangle is valid or not, when the three angles of the triangle are entered through the keyboard. A triangle is valid if the sum of all the three angles is equal to 180 degrees

Test Data:

```
input 3 angles of triangle: 45 45 90
```

Expected Output:

```
Triangle is valid
```

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17. Find the absolute value of a number entered through the keyboard.

Test Data:

```
Enter a number: -15
Enter a number: 25
```

Expected Output:

```
Absolute number = 15
Absolute number = 25
```

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18. Given the length and breadth of a rectangle, write a program to find whether the area of the rectangle is greater than its perimeter. For example, the area of the rectangle with length = 5 and breadth = 4 is greater than its perimeter.

Test Data:

```
Enter the length and breadth of a rectangle: 5 4
```

Expected Output:

```
Area of rectangle is greater than its perimeter.
```

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19. Given three points (x1, y1), (x2, y2) and (x3, y3), write a program to check if all the three points fall on one straight line.

Test Data:

```
Enter points (x1, y1):1 2
Enter points (x2, y2):3 4
Enter points (x3, y3):5 6
```

Expected Output:

```
All the three points fall on the straight line:
```

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20. A certain grade of steel is graded according to the following conditions:

```
(i) Hardness must be greater than 50
(ii) Carbon content must be less than 0.7
(iii) Tensile strength must be greater than 5600
The grades are as follows:

Grade is 10 if all three conditions are met
Grade is 9 if conditions (i) and (ii) are met
Grade is 8 if conditions (ii) and (iii) are met
Grade is 7 if conditions (i) and (iii) are met
Grade is 6 if only one condition is met
Grade is 5 if none of the conditions are met

Write a program, which will require the user to give values of hardness, carbon content
and tensile strength of the steel under consideration and output the grade of the
steel.
```

Test Data:

```
Enter hardness, carbon and tensile: 60 0.8 5700
```

Expected Output:

```
Grade is 7
```

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21. Write a C program to input side of a triangle and check whether triangle is valid or not using if else.

> A triangle is valid if sum of its two sides is greater than the third side.

Test Data:

```
Enter 3 sides of a triangle: 7 10 5
```

Expected Output:

```
Valid Triangle
```

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22. If the three sides of a triangle are entered through the keyboard, write a program to check whether the triangle is isosceles, equilateral, scalene or right-angled triangle.

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23. Write a program to find the greatest of three numbers entered through the keyboard. Use conditional operators.

Test Data:

```
Enter 3 number: 1 2 3
```

Expected Output:

```
Greatest number is 3
```

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24. WAP to print the second maximum out of three numbers.

Test Data:

```
Enter 3 numbers : 1 2 3
```

Expected Output:

```
Second maximum = 2
```

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25. WAP to check whether a 3 digit number is a magic number or not. (Palindrome) A number is a magic number if its reverse is same as the original number.

Test Data:

```
Enter a number: 123
```

Expected Output:

```
Not a magic number.
```

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26. WAP to compute the pension of an employee.

```
If the person is male.
Age >= 90 pension is 4000
Age >= 60 pension is 6000
Age < 60 pension is 0

if the person is female.
Age >= 90 pension is 3000
Age >= 60 pension is 5000
Age < 60 pension is 0
```

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27. Calculate Telephone Bill:-

calls	Rate/call
First 50 calls	free
next 100 calls	Rs.3/call
next 200 calls	Rs.5/call
next 350 calls	Rs.7/call

Test Data:

Expected Output:

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28. WAP. to check whether a given number is even or odd without using modulo (%) operator.

> Test Data:

```
Enter a number: 12
```

> Expected Output:

```
Even number
```

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Loops C Programs

1. C Program to Reverse a Number Using FOR Loop

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2. Write a c program to check whether a given number is an Armstrong number or not.

Example: 153 is an Armstrong number

153 = (1 * 1 *1) + (5 * 5 * 5) + (3 * 3 * 3)

where: (1 * 1 * 1)=1 (5 * 5 * 5)=125 (3 *3 * 3)=27

So: 1 + 125 + 27 = 153

153 is an Armstrong number

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3. Calculate the Sum of n Natural Numbers Using the While Loop

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4. Write a C Program to Print the Multiplication Table of N

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5. Fibonacci Series Program in C Using DO While Loop

Fibonacci Series: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34. Fibonacci Series is up to 10 Elements.

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6. GCD of Two Numbers in C | Greatest Common Divisor Program

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7. Program to Find LCM of Two Numbers in C Using While Loop

Formula

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8. Palindrome Program in C Using While Loop

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9. Count the Number of Digits of an Integer Using the While Loop

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10. Find a Generic Root of a Number Using While Loop

For Example: If user input number is 12345, then we add all the individual digits of the number i.e., 1 + 2 + 3 + 4 + 5 = 15. We got 15. Now we add individual digits of number 15 i.e., 1 + 5 = 6. So Generic Root of number 12345 is 6.

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11. C Program to Print The Calendar of a Month of 31 Days

Output

```
Enter Total Numbers of Days in a Month:31

Enter 0 for Monday:
Enter 1 for Tuesday:
Enter 2 for Wednesday:
Enter 3 for Thursday:
Enter 4 for Friday:
Enter 5 for Saturday:
Enter 6 for Sunday:

Enter First Day of the month 0 to 6:5

Mon     Tue     Wed     Thu     Fri     Sat     Sun
_____________________________________________
-       -       -       -       -       1       2
3       4       5       6       7       8       9
10      11      12      13      14      15      16
17      18      19      20      21      22      23
24      25      26      27      28      29      30
31
```

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12. Check Whether a Number Is Divisible by 11 Using (Vedic Maths)

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13. Denomination of an Amount Using While Loop

```
Logic :- The Logic Behind we have to divide a money by Above Money lets take a example
Suppose money is 16108 then follow the Step We are taking a example of Indian Currency
In present

Step 1:- Then First we divide 16108  by 2000 then we get 8    ,2000 rs notes then go to
step 2

Step 2:-  After divide 2000 we get a remainder 108 The we know that 108 is not
divisible by 500 so go to next step

Step 3:- Now divide 108 by 100 then we get 1 ,100 rs note now remainder is 8 go to next
step

Step 4:- 8 is divisible by 50 and 20 nor 10 so we escape now go to next step

Step 5:- Now divide 8 by 5 we get a 1 ,5 rs notes and remainder is 3 so go to next step

Step 6:- Now divide 3 by 2 we get 1 ,2 rs notes and remainder is 1
so follow the next step

Step 7:- This is a Last step divide 1 by 1 we get zero remainder now print the total no
of denomination needed and along with total no of count require to fulfill a
requirement
```

```
So for 16108 You Need to

No.

8 * 2000 = 16000
1 * 100 = 100
1 * 5 = 5
1 * 2 = 2
1 * 1 = 1

Total =12 Notes For minimum Transaction
```

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14. Write a Program to print numbers 1 to n using while loop in C language

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15. Write a Program to print first n even numbers in C language

HINT: Even number is divisible by 2 and generates a remainder of 0

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16. Write a Program to print first n odd numbers in C language

HINT: Odd number which is not divisible by "2". An odd number always ends in 1, 3, 5, 7, or 9.

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17. Write A Program To Accept A Number From User And Print If It Is Prime Or Not In C Language

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18. Write a Program to accept a number and print sum of it's digits in C language

Ex: 153 Sum of its digit is 9

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19. Write A Program To Accept A Number From User And Print It's Factorial In C Language

factorial of 5 is: 5! = 5 x 4 x 3 x 2 x 1 = 120

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20. Write a program to accept a number and print prime numbers between 2 and n in C language

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21. Write a program to print digits, alphabets in capital and lower case in C language

ASCII

```
Digits

0 1 2 3 4 5 6 7 8 9

Uppercase Alphabets

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Lowercase Alphabets

a b c d e f g h i j k l m n o p q r s t u v w x y z
```

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22. Write a program to print out ASCII chart on a single screen (all 256 characters from 0 to 255) in a tabular form. The ASCII code should be followed by the corresponding character in C language

ASCII

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23. Program To Print Triangular Number Series Till n

Triangular Number Example: 15 is Triangular Number because it can be obtained by 1+2+3+4+5+6 i.e. 1+2+3+4+5+6=15

List of Triangular Numbers: 1, 3, 6, 10, 15, 21, 28, 36, 45, 55, 66, 78, 91, 105, 120, 136, 153, 171, 190, 210, 231, 253, 276, 300, 325, 351, 378, 406, 435, 465, 496, 528, 561, 595, 630, 666,

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24. C Program to Check Whether a Number is Triangular or Not

Triangular Number Example: 15 is Triangular Number because it can be obtained by 1+2+3+4+5+6 i.e. 1+2+3+4+5+6=15

List of Triangular Numbers: 1, 3, 6, 10, 15, 21, 28, 36, 45, 55, 66, 78, 91, 105, 120, 136, 153, 171, 190, 210, 231, 253, 276, 300, 325, 351, 378, 406, 435, 465, 496, 528, 561, 595, 630, 666,

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25. Write a C program that read 5 numbers and sum of all odd values between them.

Test Data :

```
Input the first number: 11
Input the second number: 17
Input the third number: 13
Input the fourth number: 12
Input the fifth number: 5
```

Expected Output:

```
Sum of all odd values: 46
```

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Pattern

1. Write A Program To Print Following Outputs In C Language

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

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2. Write A Program To Print Following Outputs In C Language

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

Click Here For Solution

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3. Write A Program To Print Following Outputs In C Language

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

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4. Write A Program To Print Following Outputs In C Language

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

Click Here For Solution

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5. Write A Program To Print Following Outputs In C Language

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

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6. Write A Program To Print Following Outputs In C Language

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

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

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7. Write A Program To Print Following Outputs In C Language

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

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8. Write A Program To Print Following Outputs In C Language

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

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9. Write A Program To Print Following Outputs In C Language

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

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10. Write A Program To Print Following Outputs In C Language

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

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11. Write A Program To Print Following Outputs In C Language

```
      A
    B B B
  C C C C C
D D D D D D D
```

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12. Write A Program To Print Following Outputs In C Language

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

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13. Write A Program To Print Following Outputs In C Language

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

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14. Write A Program To Print Following Outputs In C Language

```
x
x x x
x x x x x
x x x x x x x
x x x x x x x x x
```

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15. Write A Program To Print Following Outputs In C Language

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

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16. Write A Program To Print Following Outputs In C Language

```
1
2 3
4 5 6
7 8 9 10
11 12 13 15
```

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17. Write A Program To Print Following Outputs In C Language

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```

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18. Write A Program To Print Following Outputs In C Language

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

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19. Write A Program To Print Following Outputs In C Language

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20. Write A Program To Print Following Outputs In C Language

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

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21. Write A Program To Print Following Outputs In C Language

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

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22. Write A Program To Print Following Outputs In C Language

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

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23. Write A Program To Print Following Outputs In C Language

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

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24. Write A Program To Print Following Outputs In C Language

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

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25. Write A Program To Print Following Outputs In C Language

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

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26. Write A Program To Print Following Outputs In C Language

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

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