

The background features a complex network of thin grey lines and dots, forming a web-like structure. Scattered throughout are various triangles of different sizes and orientations, some with solid outlines and others with dashed or dotted lines. The overall aesthetic is technical and geometric.

Some Practice Problems

using
scanf()

Problem 1

Description: Write a C program to take an integer (x) number as input and display it.
Here $-100000 < x < 100000$

Sample Input:

10

Sample Output:

10

Sample Input:

12

Sample Output:

12

Problem 2

Description: Write a C program to take a floating point (x) number as input and display it.

Here $-100000 < x < 100000$

Sample Input:

56.212322

Sample Output:

56.212322

Sample Input:

1020.098345

Sample Output:

1020.098345

Problem 3

Description: Write a C program to take a character(c) as input and display it.

Sample Input:

a

Sample Output:

a

Sample Input:

9

Sample Output:

9

Problem 4

Description: Write a C program to take a character(c) as input and display its ASCII value.

Sample Input:

A

Sample Output:

65

Sample Input:

0

Sample Output:

48

Problem 5

Description: Write a C program to take two integer number (x and y) as input and display the sum of that two numbers.

Sample Input:

10 25

Sample Output:

35

Sample Input:

-10 50

Sample Output:

40

Problem 6

Description: Write a C program to take two integer number (x and y) as input and display the value of x-y.

Sample Input:

10 25

Sample Output:

-15

Sample Input:

10 5

Sample Output:

5

Problem 7

Description: Write a C program to take two integer number (x and y) as input and display the value of x multiplied by y.

Sample Input:

10 25

Sample Output:

250

Sample Input:

10 -1

Sample Output:

-10

Problem 8

Description: Write a C program to take two integer number (x and y) as input and display the value of x modulo y ($x\%y$). [Modulo means remainder]

Sample Input:

36 11

Sample Output:

3

Sample Input:

125 5

Sample Output:

0

Problem 9

Description: Write a C program to take two integer number (x and y) as input and display the output in the given format.

Sample Input:

10 3

Sample Output:

10 + 3 = 13

10 - 3 = 7

10 x 3 = 30

10 / 3 = 3

10 % 3 = 1

Sample Input:

5 2

Sample Output:

5 + 2 = 7

5 - 2 = 3

5 x 3 = 15

5 / 3 = 1

5 % 3 = 2

Problem 10

Description: Write a C program to take two integer number (x and y) as input and display the output in the given format.

Sample Input:

102 30

Sample Output:

30 102

Sample Input:

130 -121

Sample Output:

-121 130

Problem 11

Description: Given the base and height of a triangle, determine its area.

Sample Input:

4 6

Sample Output:

12

Sample Input:

11 8

Sample Output:

44

Area of triangle = $(1/2) * \text{base} * \text{height}$

Problem 12

Description: Given the radius(r) of a circle, determine its area.

Sample Input:

12

Sample Output:

Sample Input:

10

Sample Output:

$$\text{Area of circle} = \text{Pi} * r^2$$

Problem 13

Description: Given three edges (a, b and c) of a triangle, determine its area.

Sample Input:

5 6 10

Sample Output:

Sample Input:

3 6 8

Sample Output:

$$area = \sqrt{s(s-a)(s-b)(s-c)}$$

$$\text{Where: } s = \frac{a+b+c}{2}$$

Problem 14

Description: Given the radius(r) and height(h) of a cylinder, determine its volume.

Sample Input:

5 6

Sample Output:

Sample Input:

3 6

Sample Output:

$$\text{Volume} = \text{Pi} * r^2 * h$$

Problem 15

Description: Given the radius(r) of a sphere, determine its volume.
[N.B. Print the answer up to two decimal points.]

Sample Input:

5

Sample Output:

Sample Input:

12

Sample Output:

$$\text{Volume} = (4/3) * \text{Pi} * r^3$$

Problem 16

Description: Write a program that takes two numbers (a and b) as input and swaps those two numbers.

Here, $1 \leq a, b \leq 10^9$

Explanation:

Suppose $a = 10, b = 5$

After performing the swap operation the values of a and b will be changed as follows

$a = 5, b = 10$

Thank You

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