

Revision Exercises

Question 1: Write down the output produced by each segment of code below:

(a)	<pre>int a = 5, b = 3, c = 0; a = a - b; c = (2 + c) * a; c++; printf("a = %d\n", a); printf("b = %d\n", b);</pre>	
(b)	<pre>int a = (int)(-6.0 + 0.1); double x = 5 / 2 * 4.0; printf("a = %d\n", a); printf("x = %d\n", x);</pre>	
(c)	<pre>int x = 1, y = 0; if (2 == x == y) printf("//A\\n"); printf("//B\\n"); printf("//C\\n");</pre>	
(d)	<pre>int A[10] = { 1, 2, 3 }, i = 4; printf("%d\n", A[3]); while (i >= 1) { A[i] = A[i-1] * 2; i--; } printf("%d\n", A[3]);</pre>	

Question 2: Write a FULL C program (complete with <header file> inclusion and main function declaration) to input three integers, X, Y, and Z. You may assume they are non-negative integers. Your program should produce output based on the following rules:

- If the rightmost digit of X is either 2 or 7, print "A";
- If one of the numbers is equal to the sum of the other two numbers, print "B";
- If X is not less than Y or Y is not divisible by 3, print "C";
- If the input values satisfy all the above conditions, print "D";

Note: These rules are NOT exclusive.

Sample Output (underlined characters are input entered by the user)

Input X, Y, Z: 12 20 8

ABCD