

Pg 77 #1, 4-A, C, F, 5, 6, 7 (on the code), 8-A-E, 9-21, David  
and 29 Darmer

## CS 317 Chapter 2 Assignment

- Task 1: Pg 77 #1, 4-A, C, F, 5, 6, 7 (on the code), 8-A-E,  
9 thru 21, and 29

1.) How many operands does each of the following types of operators require? Unary 1 Binary 2 Ternary 3

4.) Write assignment statements that perform the following operations with the variables a, b, and c:

A.) Adds 2 to a and stores the result in b.

(Assuming variable are already declared...)

$$b = a + 2;$$

C.) Divides a by 3.14 and stores the result in b

$$b = a / 3.14;$$

F.) Stores the character 'K' in c

$$c = 'K'$$

5.) Is the following using single-line or multi-line the comment symbols?

/\* This program was written by M.A. Code writer \*/

Multi-line comment symbols /\* \*/

6.) Is the following using single-line or multi-line the comment symbols?

// This program was written by M.A. Code writer

Single-line Comment symbols //

7.) Modify the following program so it prints two blank

lines between each line of text

#include <iostream>

using namespace std;

int main()

{

cout << "Two mermaids like creatures in the ice // sea surface

cout << endl << endl << endl;

cout << "dark";

cout << endl << endl << endl;

cout << "Creating the agony of ecstasy" << endl << endl << endl;

cout << " - George Barker" << endl;

return 0; } // no room for uniformity

8.) What will the following programs print to screen?

A.) #include <iostream>

using namespace std;

int main()

{

    int freeze = 32, boil = 212;

    freeze = 0;

    boil = 100;

    cout << freeze << endl << boil << endl;

    return 0;

}

Output: 0

100

B.) #include <iostream>

using namespace std;

int main()

{

    int x = 0, y = 2;

    x = y \* 4;

    cout << x << endl << y << endl;

    return 0;

}

Output: 8

2

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8.) C.) #include <iostream>  
using namespace std;  
int main ()  
{  
 cout << "I am the incredible";  
 cout << " computing machine";  
 cout << "\nand I will \nmake\n";  
 cout << "you.\n";  
 return 0;  
}

Output: I am the incredible computing machine  
and I will  
make  
you.

D.) #include <iostream>  
using namespace std;  
int main ()

{  
 cout << "Be careful \n";  
 cout << "This might \n be a trick";  
 cout << " question\n";  
 return 0;  
}

Output: Be careful  
This might \n be a trick question

8.) E.) #include <iostream>

using namespace std;

int main()

{

    int a, x = 23;

    a = x % 2

    cout << x << endl << a << endl;

    return 0;

3

Output: 23

1

9.) Every complete statement ends with a(n) \_\_\_\_\_

C. Semicolon

10.) Which of the following statements is correct? -

C. #include <iostream>

11.) Every C++ program must have a \_\_\_\_\_

B. function main()

12.) Processor directives begin with \_\_\_\_\_

A. #

13.) The following data

72

'A'

"Hello World"

2.8712

are all examples of \_\_\_\_\_

D. None of the Above

14.) A group of statements, such as the contents of a function  
is enclosed in \_\_\_\_\_

A. braces {}

15.) Which of the following are not valid assignment statements?

(Select all that apply)

B.) 72 = amount in

C.) profit = 129

Dawn  
Dawer

## CS 317 Ch2 Assignment

- 16.) Which of the following are not valid cout statements  
(Select all that apply)

C. cout < value;  
D. cout << Programming is great fun!

- 17.) Assume w=5, x=4, y=8, and z=2. What value will be stored  
in result in each of the following statements?

A. result = x+y ; 12  
B. result = z\*2; 4  
C. result = y/x; 2  
D. result = y-z; 6  
E. result = w%2; 1

- 18.) How would each of the following numbers be represented in E notation?

A.  $3.287 \times 10^6$  32,87,000  
B.  $-978.65 \times 10^{12}$  -978650000000000  
C.  $7.65491 \times 10^{-3}$  0.00765491  
D.  $-58710.23 \times 10^{-9}$  -5.871023

- 19.) The negation operator is \_\_\_\_\_

A. Unary

- 20.) A(n) \_\_\_\_\_ is like a variable, but its value is read-only  
and cannot be changed during the program's execution.

C. named constant

- 21.) When do preprocessor directives execute?

A.) Before the compiler compiles your program

### 29.) Find The Error

There are a number of syntax errors in the following program.

Locate as many as you can.

```
1 // What's wrong with this program /*  
2 #include <iostream>  
3 Using namespace std;  
4 Int main();  
5 {  
6     Int a, b, c // Three integers  
7     a = 3  
8     b = 9  
9     c = a + b  
10    Cout < "The value of c is %d" < C  
11    return 0;  
12 }
```

Okay... So many mistakes

Line 1: the multi-comment symbols are wrong and should be /\* \*/

Line 2: iostream needs to be written as <iostream>

Line 4: Remove the semi colon

Line 5: Replace the end bracket with an open bracket

Line 6: Needs a semicolon after c and the starts for a single line comment area /\* \*/ and \*/

Line 7: Needs a semicolon

Line 8: Needs a semicolon

Line 9: Needs a semicolon

Line 10: Oh sweet Jesus line 10...

Cout must be lowercase: ~~you need two operators~~: %d is not only the wrong operation it also has a variable that is not declared: you need two < symbols for a cout to work: capital C is also not a defined variable

Line 12: Replace the open bracket with a close bracket

Ch. 2

Darwin  
Darwin

## CS 317 Assignment

- #2) Give the definition for a properly formed "Identifier".

An identifier (variable) is a named memory location used for storing data. The syntax of an identifier requires the first character used to be an upper or lowercase letter of the alphabet or an underscore. After the first character, you may use any letter, digit, or underscore you desire. Keep in mind that all identifiers are case-sensitive.

- #3) Find out what computers distinguish between integers numbers and floating point numbers. (In Math a number is a number, but not in Computers)

An integer data type only accepts a whole number in its data storage (ignoring that storage is a separate thing). A floating point number uses a scientific notation to show things that are not exact integers. If you attempt to assign a decimal value to an integer variable, then all numbers after the decimal and the decimal are simply discarded.