CISS240: Introduction to Programming Quiz q0301

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This is	a closed-book, no compiler, 5 minute quiz.		
-	rite one C++ statement that declares an integer varies it with the value of 0. ER:	able with the name i	i and
int i	= 0;		
(What	must a C++ statement end with?)		
-	rite one C++ statement that declares an integer variable write another statement that assigns 0 to j. ER:	le j without initializa	ation,
<pre>int j; j = 0;</pre>			
-	rite one C++ statement that declares two integer ver called y. Initialize x with 0 and y with 1.	ariables, one called x	c and
int x	= 0, y = 1;		
-	efore the following statement is executed, integer veger variable y has a value of 2.	ariable x has a value	of 5
x = x	+ y;		
one spa	are the values of x and y after the above statement ince between the two values. In other words, if you that 222.		

Q5. Before the following statements are executed, the integer variable \mathbf{z} has a value of 5, the integer variable \mathbf{z} has a value of 4.

7 2

```
y = y + 1;
x = x + y + z;
z = x + z / y;
```

What are the values of x, y and z after the above statements are executed? Enter exactly one space between two values. In other words, if you think x is 111, y is 222 and z is 333, you enter 111 222 333.

Answer:

```
11 3 7
```

Q6. The integer variable **n** is already declared. Write one C++ statement to get an integer input from the user (via the keyboard) and give this integer value to **n**. Answer:

```
std::cin >> n;
```

Q7. Write the following statements. Declare an integer variable i (without initialization). Get an integer input from the user (via the keyboard) and store that value in i. Declare an integer variable d0 and initialize it with the rightmost digit of i. (Example: The "rightmost digit" of 135246 is 6.) Print the value stored in d0 followed by the newline character.

Answer:

```
int i;
std::cin >> i;
int d0 = i % 10;
std::cout << d0 << std::endl;</pre>
```

Instructions

In the file thispreamble.tex look for

\renewcommand\AUTHOR{}

and enter your email address:

\renewcommand\AUTHOR{jdoe5@cougars.ccis.edu}

(This is not really necessary since alex will change that for you when you execute make.) In your bash shell, execute "make" to recompile main.pdf. Execute "make v" to view main.pdf.

Enter your answers in main.tex. In the bash shell, execute "make" to recompile main.pdf. Execute "make v" to view main.pdf.

For each question, you'll see boxes for you to fill. For small boxes, if you see

```
1 + 1 = \answerbox{}.
```

you do this:

```
1 + 1 = \answerbox{2}.
```

answerbox will also appear in "true/false" and "multiple-choice" questions.

For longer answers that need typewriter font, if you see

```
Write a C++ statement that declares an integer variable name x.
\begin{answercode}
\end{answercode}
```

you do this:

```
Write a C++ statement that declares an integer variable name x.
\begin{answercode}
int x;
\end{answercode}
```

answercode will appear in questions asking for code, algorithm, and program output. In this case, indentation and spacing is significant. For program output, I do look at spaces and newlines.

For long answers (not in typewriter font) if you see

```
What is the color of the sky?
\begin{answerlong}
\end{answerlong}
```

vou can write

```
What is the color of the sky?
\begin{answerlong}
The color of the sky is blue.
\end{answerlong}
```

A question that begins with "T or F or M" requires you to identify whether it is true or false, or meaningless. "Meaningless" means something's wrong with the question and it is not well-defined. Something like "1+2=4" is either true or false (of course it's false). Something like "1+2=4?" does not make sense.

When writing results of computations, make sure it's simplified. For instance write 2 instead of 1 + 1.

HIGHER LEVEL CLASSES.

For students beyond 245: You can put LATEX commands in answerlong.

More examples of meaningless statements: Questions such as "Is $42 = 1+_2$ true or false?" or "Is $42 = \{2\}^{\{3\}}$ true or false?" does not make sense. "Is $P(42) = \{42\}$ true or false?" is meaningless because P(X) is only defined if X is a set. For "Is 1+2+3" true or false?", "1+2+3" is well-defined but as a "numerical expression", not as a "proposition", i.e., it cannot be true or false. Therefore "Is 1+2+3 true or false?" is also not a well-defined question.

More examples of simplification: When you write down sets, if the answer is $\{1\}$, do not write $\{1,1\}$. And when the values can be ordered, write the elements of the set in ascending order. When writing polynomials, begin with the highest degree term.

When writing a counterexample, always write the simplest.