## CISS240: Introduction to Programming Quiz q0402

Name: _	sithurman1@cougars.ccis.edu	Score:
This is a	a closed-book, no compiler, 5 minute quiz.	
Q1. T o	r F: ue 5 in the following expression is type promoted from	an int to a double.
7 / 3.1	2 * 5	
Answei	R:	
T		
-	the following expression, some operators are int operators.	erators and others are
1 + 2 *	4 / 2.0 - 4 / 5 + 7.2 + 1.2	
think th	the number of int operators and the number of dou'ere are 3 int operators and 4 double operators, write etween the two integers.  R:	
5 3		
Q3. Wri	te down the output when 5 and 8 are entered as input	ts:
double std::ci	<pre>base = 0.0, height = 0.0; n &gt;&gt; base &gt;&gt; height; out &lt;&lt; (1 / 2) * base * height &lt;&lt; std::endl;</pre>	
Answei	R:	
0		
only hole	r F. The following code fragment is incorrect since (1) d a double value and not an int value, and (2) an int value and not a double value.	
double int y =	x = 42; = 3.14;	

Answer:

## 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.