

### CISS240: Introduction to Programming Quiz q0104

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This is a closed-book, no compiler, 5 minute quiz.

First trace the following program and write down the output. The console window output of the following program

```
#include <iostream>

int main()
{
    std::cout << 'I' << 't' << "was a" << '\n' << "dark\n"
               << std::endl << std::endl << "and  \"stormy\"" << ' ' << " "
               << "night\n";

    return 0;
}
```

is (use one square for each printed character):

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
0	I																				
1																					
2																					
3																					
4																					
5																					

The first output character 'I' has already been filled for you.

Characters graded are in the shaded cells. Now write down the character (remember your single quotes!) printed at the row number and column number. The row and column numbering starts with 0.

Q1. Character at row 0, column 2:

ANSWER:

Q2. Character at row 1, column 0:

ANSWER:

Q3. Character at row 3, column 1:

ANSWER:

Q4. Character at row 4, column 5:

ANSWER:

Q5. Character at row 4, column 15:

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}
```

you 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 L<sup>A</sup>T<sub>E</sub>X 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.