

## ECE 417/617 Assignment #8

Read Chapter 9 of Steve McConnell, *Code Complete*, 2nd edition, Microsoft Press, 2004.

Then answer the following questions.

### Chapter 9: The Pseudocode Programming Process

85. List four approaches for creating classes and routines, along with the name of the person advocating each one.
86. Which approach does McConnell prefer?
87. Pseudocode should be written in clear \_\_\_\_\_ and yet be \_\_\_\_\_ and \_\_\_\_\_ enough that it can easily be used as a basis for programming-language code.
88. The first step of PPP is to design the routine. List at least five aspects of this step.
89. Why is it best to try as many ideas as you can in pseudocode before you start coding?
90. The second step of PPP is to code the routine. As the code is written, the pseudocode become \_\_\_\_\_ in the code.
91. Is it okay that PPP can generate a one-line comment for a single line of code? Why or why not?
92. If you find that one line of pseudocode is exploding into a large amount of actual code, what are your two options?
93. The third step of PPP is to check the code. Why is it better to check the code mentally before compiling it? What syndrome does this avoid?
94. According to McConnell, one of the biggest differences between hobbyists and professional programmers is moving from \_\_\_\_\_ to \_\_\_\_\_. When you discover an error, whose code should you always suspect first?
95. According to McConnell, what is one symptom of a hacker mindset?
96. List some aspects of the fourth step of PPP, namely, cleaning up the leftovers.
97. What is “code smell”?