

## Written Homework #3

### CS 162: Introduction to Computer Science

Submit your assignment to the <b>D2L Dropbox</b>
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1. **Create an Algorithm** for outputting the multiplication table, as shown in Chapter 5 on nested loops in Malik.
2. **Rewrite** one of the examples in Chapter 5 that uses the break keyword to use a conditional expression and not an extra variable.
3. **Create an Algorithm** for the **testing** software. When you think about writing code, just getting the program to compile is just one part of the process. To really know if your program is working, you need to test it in all different ways. Unit testing is a great approach. **Write an algorithm for testing program #2 using the concept of unit testing each function. Be thorough.** *Looking back, did this process uncover mistakes made with the assignment?*
4. **Style:** Take a look at your program #2. Examine how you used functions, arguments, and where your comments were. Did you comment all variables? Did each function have a header comment describing the purpose of the function and of the arguments? Could you have written more functions to avoid repetitive code? Was your algorithm clear so that someone could write a program based on the algorithm with no other knowledge beside syntax. Discuss your findings as they relate to style.