# Quiz 8: Debugging SOLUTIONS
## CSCI 110 Section 1
Friday, September 2, 2016

Here are my solutions for Friday's quiz. I accepted some alternate answers as long as they made sense.

1) Describe the errors in First.java and explain how you fixed them. [20 points]

Line 10: compilation error, missing a semicolon
Line 10: compilation error, type should be a double (OR the value should be an integer)
Line 17: compilation error, not a valid Java statement - use System.out.println instead

2) Describe the errors in Second.java and explain how you fixed them. [30 points]

Line 11: compilation error, missing a closing brace for the while statement
Line 10: runtime error, divide by zero. The line should read "start += 1;" or similar
Line 8: logic error, "done = false;" should be "done = true;" so that the loop terminates

3) Describe the errors in Third.java and explain how you fixed them. [50 points]

Line 1: compilation error, class name doesn't match the filename. You could rename the class to match the file or the file to match the class.
Line 2: compilation error, String misspelled
Line 9: compilation error, System missspelled
Line 9: logic error, "h / v" should be "h * v" since we're printing a multiplication table
Line 6: logic error, "h >= 6" should be "h <= 6"
Line 10: logic error, "v -= 1" should be "v += 1"
Line 5: logic error, v should start at 1 instead of 0 so that the table is aligned correctly

4) Describe the errors in Fourth.java and explain how you fixed them. [extra credit, 30 points]

Line 30: compilation error, missing starting "
Line 33: compilation error, missing + (these two were cascading errors)
Line 9: compilation error, wrong return type, should be int
Line 17: compilation error, wrong return type, should be int
Line 24: logic error, "result -= base" should be "result *= base" since we're computing an exponent
Below line 24: logic error, need "curr += 1;" for the loop to run and terminate