BIT 142 Midterm Review:

There IS partial credit, so make sure to comment stuff!

Question Types:
Write code that does X
Find all the errors in sample code
        You don't get penalized for incorrect "errors"
Tell me what this code does/prints/etc

Some Question Topics:

Console input, output
        Write, WriteLine, concatenating strings & values together

Types / Ops
        You do NOT need to memorize the exact range of value for each type
        int, double, bool, etc
        strings
        arithmetic operators
                integer vs. real division
                modulus
        Comparison operators
        logical operators
        order of operations
                The "Output: " + (x + y) thing

Arrays
        Declaring, using
        Passing to a function

Control flow
        if, if…else, switch
        loops, single & **multiply** nested

Functions
        'design principles'

Parameters, reference parameters (ref vs. out)
Return values (vs. ref. parameters)
Using the Math library routines
Generating Random Numbers

Object Oriented Programming
Create a class
Access control: public, private
With instance variables
With methods
Method overloading
Constructors
Overloaded constructors

Array of Objects
Don't forget to allocate the array AND to allocate each individual object
Null values in array slots

Disclaimer: This is a suggested list of topics that you might focus on. The presence of an item on this list does not guarantee that it will be on the midterm exam. Likewise, the absence of a topic from the list does not guarantee that the topic will be absent from the exam. The exam will cover everything that has been covered in this class (in lecture, in the reading, and in the in-class exercises), and may draw upon topics from any pre-requisite classes as well.