Provide short answers to the following questions:

*Methods and Scope*

1. Can you declare a method inside another method?

Yes. Nested methods.

1. Where can optional parameters be placed in a method signature?

Within parentheses after the method name.

3. How can you pass parameters to a method out of order?

Named arguments give you the ability to pass arguments in any order. See example below.

optMethod(first : 99, second : 123.45, third : "World");  
optMethod(third : "World", second : 123.45, first : 99);

*Decision Statements*

1. If you want to combine two boolean statements with the && operator, would it make more sense to put the more computationally expensive statement on the left or right? Defend your answer.

Put the more computationally expensive statement on the right, because if the statement on the left evaluates to false, then the result of the entire expression is false, so the && operator bypasses the evaluation of the right operand.

1. Critique the following code:

void M(bool t)

{

if (t == true)

{

doStuff();

}

}

if (t == true) is correct, but not commonly used.   
if (t) is more common and considered better style.

*Welcome to C#*

1. In the namespace MSSA.CS.Welcome, define a Main method which prints your name and "Welcome to C#!" to the command line.

static void Main(string[] args)

{

Console.Writeline(“K. David Pearce, Welcome to C#!”);

}

*Variables, Operators, and Expressions*

1. Given string input = "17", write code that:
   * Converts input to an integer and stores it in a variable named count
   * Increments count using the pre-increment operator
   * Prints count to the console using the string interpolation syntax

string input = “17”;

int count = int.Parse(input);

++count;

Console.Writeline($”The count is {count}”);