**1. Your challenge: What does this loop print? Note: there’s nothing to fix in this loop, it’s OK.**

for (int k = 0; k < 100; k = k+1)

{

Console.WriteLine(k);

}

Your brief answer (worth 0.5 points):

This will print 0-99.

**2. How about this one (it’s also OK)?**

for (int k = 0; k < 100; k = k+1)

{

Console.WriteLine(k++); // k++ returns the original value of k, and then adds 1 to k

}

Your brief answer (worth 0.5 points):

This will print 1-100.

**3.** What happens here? **How can the code be fixed** to eliminate the problem(s)?

for (int k = 0; k < 100; k = k++) // k++ returns the original value of k, and then adds 1 to k

{

Console.WriteLine(k);

}

Your brief answer (worth 1 point):

Just say k++ instead of k = k++,

**4. What is wrong** with the following *for* loop? **What is the output after it is fixed?**

int k;

for (k = 0; k = 1; k++) // k++ returns the original value of k, and then adds 1 to k

{

Console.Write("{0} ", k);

}

Your brief answer (worth 1 point):

K is never = 1 so this loop won't run at all. Change k = 1 to k <= 1. It will then print: 01.

**5. What is wrong** with the following *for* loop? **What is the output after it is fixed?**

for (int k =1, k == 20; k++) {}

Your brief answer (worth 0.5 points):

change comma to semicolon, k == 20 to k = 20; need to add conditional statements like, Console.WriteLine(k); within brackets.

**6. What does this *do-while* loop print (it’s OK as-is)?**

int k = 3;

do

{

Console.Write(k);

} while (k != 3);

Your brief answer (worth 1 point):

This loop will print 3, but it wont loop any more because the condition is not met.

**7.** **What is wrong** with the following *do-while* loop? **What is the output after it is fixed?**

do

{

Console.WriteLine("This looks correct")

} while {true};

Your brief answer (worth 0.5 points): This is an infinite loop. We need a conditional statement in the while with a terminating variable to stop it when we need to.

**8. Extra credit:** assume string s = "0123456789"; how would you write a *foreach* loop that prints

the **char**acters in *s*, but only those that represent *even numbers*?

Your answer below (worth up to 2 points):

**Total: 5 points for this Lab + 2 extra credit points, maximum of 7 points.**