Quiz #2 (30 pts) – March 17th, 2016

All answers must be of your own work. Type out your answers and submit your quiz through Blackboard for Quiz #2 as either a MS Word document or PDF file (Mac users using Pages, make sure to Export to MS Word).

1) (10 points) Assuming we have integer variables **x = 5, y = 4, z = 2**; what are the results of the following expressions using ++ and – operators?

```
int x=5,y=4,z=2;
int a = ++x + (y++  * z);
int b = x++ * ( 2*y++ ) / z--;
int c = x-- % ( 3*(--y) + (++z) );
```

What are the final values for a, b, c, x, y and z after the three statements have executed?

2) (10 points) What is the output of the following Java code?

```
for( int cc = 1; cc < 4; cc++ )
{
        for( int i = 1; cc%2==0 ? i < 2*cc : i < 3*cc-1; i++ )
        {
                System.out.print("*");
        }

        System.out.println();
}
```

3) (10 points) What is the value returned in the following function named: **mystery_one**, if we pass x=2 and y=7?

```
static int mystery_one(int x, int y) {
        int result = 0;
        for( int i = 0; i < x; i++ )
                for( int j = 0; j < y; j += 2 ) {
                        System.out.printf("result=%d, i=%d, j=%d\n",result,i,j);
                        result += ( i + 1 )*( j + 2);
                }
        return result;
}
```