**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?

**a: 14 , b: 30 , c: 3 , x: 6 , y: 5 , z: 2**

1. (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();

}

**OUTPUT:**

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**\*\*\*\*\*\*\***

1. (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;

}

**The result of this method returns the value 68 if 2 and 7 are passed into the mystery function.**