CS212 Worksheet 2 **Key** February 20, 2017

Note: Highlight your answer with yellow.

1. Fill in the former parameters and required attributes.

__private_int__ Test (__int a, int b, int c___)

```
{
      int t1, t2, t3;       // local variable
      t1 = a + b;
      t2 = a - b;
     t3 = 2 * (t1 + t2);
     c = t1 + t2 + t3;
     return c;
}
```

2. What are the elements of the array *test1* after the following segment of code is executed.

```
double[] test1 = {3, 5, 4, 3, 1, 7};
DoChange(test1, test1.length);
test1: __1.5, 2.5 2.0, 1.5, 0.5, 3.5_____
```

The definition of above void method *DoChange* is as follows.

```
private static void DoChange(double[] test, int size)
{      for(int i=0; i<size; i++)
              test[i] *= 0.5;
}
```

3. What is the output after the following segment of code is executed.

```
double[] test1 = {3, 5, 4, 3, 1, 7};
double x = DoCal(test1, test1.length);
system.out.println("x = " + x);

// x  = 3.833333
```

The definition of above value-returning method *DoCal* is as follows.

```
private static double DoCal(double[] test, int size)
{      double s = 0;
       for(int i=0; i<size; i++)
              s += test[i];
       return s/size;
```

```
}
```

4. Write a method *Sum* that receives a double array *myArrays* and its size (# of elements in *myArrays*), then sums up all components of the array.

```
private static double Sum(double[] myArrays, int size)
{       double s = 0;
        for(int i=0; i<size; i++)
                s += myArrays [i];
        return s;
}
```