CIS 1068: Quiz 6 **Name(print)**_____

1. Tracing programs

Code	
``java	at end of main()
public class Quiz1 {	
public static void main(String [] args) {	x = "007"
String x = mystery("00");	
}	
public static String mystery(String s) {	
s = s + "7";	
return s;	
}	
}	

```java
public class Quiz1 {
  public static void main(String [] args) {
    String x = mystery("00");
  }
  public static String mystery(String s) {
    s = s + "7";
    return s;
  }
}
```
at end of main()

x = "007"

```java
public class Quiz2 {
  public static void main(String [] args) {
    System.out.println("main 1");
    mystery1(true);
    System.out.println("main 2");
    mystery2(7);
    System.out.println("main 3");
  }
  public static void mystery1(boolean a) {
    System.out.println("a = " + a);
    if(a) {
      mystery2(2);
    }
    System.out.println("end mystery1");
  }
  public static void mystery2(int x) {
    System.out.println("x = " + x);
  }
}
```
Screen

 main 1
 a = true
 x = 2
 end mystery1
 main 2
 x = 7
 main 3

```java
public class Quiz3 {
  public static void main(String [] args) {
   int x = 1, y = 2, z = 3;
   mystery3 (x, y, z);
   System.out.println( x + " " + y + " " + z);
  }
  public static void mystery3 (int x, int y, int z) {
    x *= 2;
    y += x;
    z = z % 2;
  }
}
```
Screen

1 2 3

```java
public class Quiz4 {
  public static void main(String [] args) {
   int A[] = {1, 2, 3};
   mystery4 (A);
   System.out.println( A[2]);
  }
  public static void mystery4 (int A [ ] ) {
    for (int i = 1; i < A. length; i++)
      A[i] += A[i-1];
  }
}
```
Screen

6

| ```
public class Quiz5 {
  public static void main(String [] args) {
   int A[] = {1, 2, 3};
   int B[] = {4, 5, 6};
   int x = mystery5 (A, B);
   System.out.println(x + " " + A[1]);
  }
  public static int mystery5 (int A [ ], int B [ ]) {
   A = B;
   return A[1];
  }
}
``` | Screen<br><br>5 2 |

2. **Writing a short method**: Write a method that takes integers a, b, and c as arguments. It should return their average (as a `double`).

public static double average (int a, int b, int c) {
return (a+b+c)/3.0;
}

3. **Writing a short method:** Write a method called `copyString` that takes a `String s` and an `int x` as arguments. The method should return a `String` containing x copies of s.

   For example, if you define the method correctly, then the command
   `String t = copyString("blah", 3);`
   should store "blahblahblah" in

public static String copyString (String s, int x) {
String result = "";
for(int j = 1; j<=x; j++)
      result += s;
return result;
}