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ICS 4U1
Mr. Cardoso
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Homework - Section 5.3 (#1-5)

1 a) mystery
b) (double a, double b)
c) int
d) public static int mystery (double a, double b)
e) public static int mystery (double a, double b)
{
 int value = 0;
 if (a < b)
 value = -1;
 else
 {
 if (a > b)
 value = 1;
 }
 return value;
}
f) public static int mystery (double a, double b)
{
 int value = 0;
 if (a < b)
 value = -1;
 return value;
 else
 {
 if (a > b)
 value = 1
 return value;
 }
 return value ;
}

2

a)

```
/**
 * This method returns the first letter.
 * @param a - one of the letters
 * @param b - another letter
 */
public static char first(char a, char b)
{
    if(a < b)
        return a;
    else
        return b;
}
```

b)

```
/**
 * This method returns answer of a subtraction question.
 * @param a - one double value
 * @param b - another double value
 */
public static double second(double a, double b)
{
    double answer;
    if(a < b)
        answer = a - b;
    else
        answer = b - a;
    return answer;
}
```

3

a) Valid

b) Valid

c) Invalid // you cannot store a value using System.out.println

d) Valid

```
4 public static double largest(double a, double b, double c)
  {
    if(a > b && a > c)
      return a;
    else if(b > a && b > c)
      return b;
    else
      return c;
  }
```

```
5 public static int gcd(int a, int b)
  {
    int gcd;
    for(int i = 1; i <= a; i++)
    {
      if(a % i == 0 && b % i == 0)
        gcd = i;
    }
    return gcd;
  }
```