

CSE 142 Section Handout #4 Solutions

1.

Call	Output
mystery1(8);	8 6
mystery1(-3);	-3 4
mystery1(1);	1 3
mystery1(0);	0 0

2.

Call	Output
mystery2(20, 4);	5 4
mystery2(7, 6);	7 3
mystery2(14, 7);	2 5
mystery2(24, 8);	3 5
mystery2(13, 9);	4 9

3.

```

Scanner console = new Scanner(System.in);
System.out.print("x coordinate? ");
double x = console.nextDouble();
System.out.print("y coordinate? ");
double y = console.nextDouble();

int neg = 0;
if (x < 0.0) {
    neg++;
}
if (y < 0.0) {
    neg++;
}
System.out.println("negatives = " + neg);

```

4.

```

public static int daysInMonth(int month) {
    if (month == 4 || month == 6 || month == 9 || month == 11) {
        return 30; // 30 days have September, April, June, and November
    } else if (month == 2) {
        return 28; // 28 days in February
    } else {
        return 31; // 31 days in all other months
    }
}

```

CSE 142 Section Handout #4 Solutions (continued)

5.

```
public static int quadrant(double x, double y) {  
    if (x > 0 && y > 0) {  
        return 1;  
    } else if (x < 0 && y > 0) {  
        return 2;  
    } else if (x < 0 && y < 0) {  
        return 3;  
    } else if (x > 0 && y < 0) {  
        return 4;  
    } else { // at least one equals 0  
        return 0;  
    }  
}
```

6.

```
System.out.print("how many integers? ");  
int count = console.nextInt();  
int sum = 0;  
int max = 0;  
  
for (int i = 1; i <= count; i++) {  
    System.out.print("next integer? ");  
    int next = console.nextInt();  
    if (next % 2 == 0) {  
        sum += next;  
        if (next > max) {  
            max = next; // or, max = Math.max(max, next);  
        }  
    }  
}  
  
System.out.println("even sum = " + sum);  
System.out.println("even max = " + max);
```