

CS 1713 Exam 1 Solutions — Spring 2007

1) (12 points) a) 3 b) 3.75 c) 7.5 d) 15.0 e) 3 f) 3.8

2) (9 points)

```
int organicMultiplier = 1;
if (organic)
    organicMultiplier = 2;
if (size == 1)
    price = organicMultiplier*1.0;
else if (size == 2)
    price = organicMultiplier*1.5;
else if (size == 3)
    price = organicMultiplier*1.75;
```

3) (7 points)

```
Scanner scan = new Scanner(System.in);
int value;
do {
    System.out.println("Enter an integer between 1 and 5");
    value = scan.nextInt();
} while (value < 1 || value > 5);
System.out.println("The value entered is "+value);
```

4) (10 points)

a)

```
for (int i=0; i < a.length; i++)
    System.out.print(a[i] + " ");
System.out.println();
```

b)

```
for (int i=0; i < a.length; i++)
    if (i == a.length - 1)
        System.out.println(a[i]);
    else
        System.out.print(a[i] + ", ");
```

5) (10 points)

```
public double findAverage(int[] array) {
    double sum = 0.0;
    if (array.length == 0)
        return sum;
    for (int i=0; i<array.length; i++)
        sum = sum + array[i];
    return sum/array.length;
```

6) (10 points)

```
Rectangle rect = new Rectangle(7,10);
System.out.println("The area is "+rect.getArea()+
    " and the perimeter is "+rect.getPerimeter());
```

7) (18 points) a) 'i' b) 10 c) -1 d) 15 e) "est." f) "is is a te"

8) (8 points)

```
public int findLastA(String s) {
    for (int i = s.length-1; i >= 0; i--)
        if (s.charAt(i) == 'A')
            return i;
    return -1;
}
```

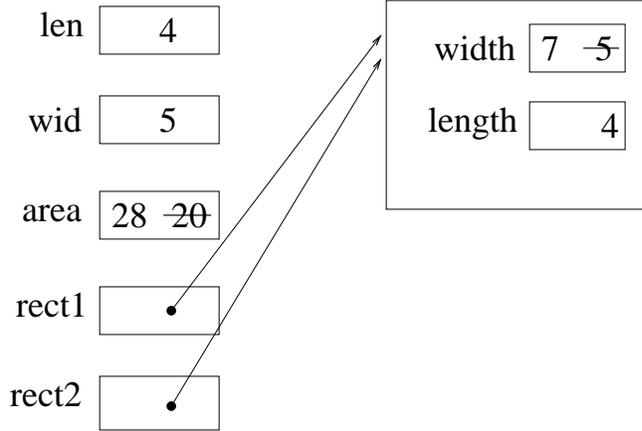
9) (4 points)

a

b

c

10) (6 points)



11) (6 points)

