

CS 1713 Exam 1 Solutions — Fall 2007

1) (12 points) a) 4 b) 2.6 c) 10.0 d) $21 \frac{2}{3}$ e) 1 f) 5.4

2) (10 points)

```
if (weight <= 5)
    postage = 8.95;
else if (weight < 10)
    postage = 12.84;
else if (weight <= 20)
    postage = 17.29;
else
    postage = 0.95*weight;
```

3) (9 points)

```
int numWon = 0;
count = 0;
do {
    if (game.play())
        numWon++;
    count++;
} while (numWon < 5);
```

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) (8 points)

```
public double findMax(double[] array) {
    double max;
    if (array.length == 0)
        return -1;
    max = a[0];
    for (int i=1; i<array.length; i++)
        if (a[i] > max)
            max = a[i];
    return max;
```

6) (10 points)

```
Rectangle rect = new Rectangle(9,4);
System.out.println("width="+rect.getWidth()+
    " length="+rect.getLength()+
    " area="+rect.getArea()+
    " perimeter="+rect.getPerimeter());
```

7) (5 points)

```
double temp;
temp = a[7];
a[7] = a[9];
a[9] = temp;
```

8) (8 points)

```
public int countAs(String s) {
    int count = 0;
    for (int i=0; i<s.length(); i++)
        if (s.charAt(i) == 'A')
            count++;
    return count;
}
```

9) (12 points) a) 'k' b) -1 c) 8 d) 21 e) "ava programs." f) "ke Java Pr"

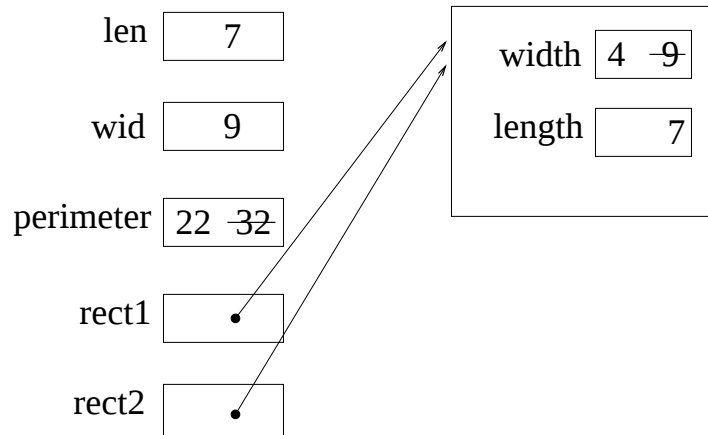
9) (4 points)

a

b

c

10) (6 points)



11) (6 points)

