SECTION I

A client class has a display method that writes the date represented as its parameter. "Assume that the Date class's toString() method returns the date in the form month/day/year."

private int myMonth;

private int myDay;

private int myYear;

…

//Outputs Date d in the form month:day:year.

public void display (Date d)

{

/\* method body \*/

}

Which of the following are correct replacements for /\* method body \*/?

1. Date d = new Date(m, d, y);

System.out.println(d);

1. System.out.println(d.myMonth + “:” + d.myDay + “:” + d.myYear);
2. System.out.println(d);
3. I only
4. II only
5. III only
6. II and III only
7. I, II, and III
8. What output will be produced by this program?

public class Clownin {

public static void main (String [] args){

int a = 6, b = 3;

weird(a, b);

System.out.println(a + “ “ + b);

}

public static void weird (int x, int y) {

x += y;

y \*= x;

System.out.println(x + “ “ + y);

}

}

1. 36

9

1. 3 6

9

1. 9 27

9 27

1. 6 3

9 27

1. 9 27

6 3

1. If the following code is in a method in the Picture class, what will the value of count be after the following code executes?

int count = 0;

for (int row = 5; row < 12; row++){

for (int col = 8; col < 13; col++){

count++;

}

}

1. 13
2. 25
3. 35
4. 42
5. 48

**END OF SECTION I.**

SECTION II

1. Write two unrelated methods for the Picture class.
   1. Write a method int getCountRedOverValue (int value) that returns a count of the number of piexels in the current picture that have a red value more than the parameter value.
   2. Write a method setRedToHalfValueInTopHalf() that sets the red value for all piexels in the top half of the picture to half the current red value.
2. Write two unrelated methods for the Picture class.
   1. Write a method clearBlueOverValue(int value) that sets the blue value to 0 for every pixel that has a current blue value greater than the parameter value.
   2. Write a method int[] getAverageForColumn(int col) that creates and returns an array of integers the size of the number of elements in the column with index col. Each item in the array should contain the average of the red, green, and blue values for each pixel in the column.

**END OF SECTION II.**