**ICS 102 – Introduction to Computing**

**Spring Semester 152**

**Quiz # 5 key**

**ID: Name:**

Write a program that initializes two integer arrays using initializer list to the following values:

First array [10, 20, 30, 40, 50] and second array [60, 70, 80, 90]. It then calls the static method append that takes the two arrays as parameters and returns the array that has values of the first array followed by the values of the second array. Finally it prints the three arrays using the static method print that prints an integer array.

Note: You need to write the static methods append and print.

**Output:**

First array [10, 20, 30, 40, 50]

Second array [60, 70, 80, 90]

Third array [10, 20, 30, 40, 50, 60, 70, 80, 90]

**public class Quiz5**

**{**

**public static void main(String[] args)**

**{**

**int[] a = {10, 20, 30, 40, 50};**

**int[] b = {60, 70, 80, 90};**

**int[] c = append(a, b);**

**System.out.print("First Array ");**

**printArray(a);**

**System.out.print("Second Array ");**

**printArray(b);**

**System.out.print("Third Array ");**

**printArray(c);**

**}**

**public static void printArray(int[] a)**

**{**

**System.out.print("[" + a[0]);**

**for(int i = 1; i < a.length; i++)**

**System.out.print(", " + a[i]);**

**System.out.println("]");**

**}**

**public static int[] append(int[] x, int[] y)**

**{**

**int[] z = new int[x.length + y.length];**

**for(int i = 0; i < x.length; i++)**

**z[i] = x[i];**

**for(int i = 0; i < y.length; i++)**

**z[i + x.length] = y[i];**

**return z;**

**}**

**}**