Mr. Levin AP CS JAVA

AP Java Lab 2.1

Date: 11/07/17

Procedures:

- **Declaring and manipulating arrays**
- **Defining methods to work with array structures**

Class:

- **ArrayMethods**

Methods:

- **public static int[ ] removeDuplicates(int [] list)**
- **public static int[][] productArray(int[] arr1, int[] arr2)**
- **public static int[ ][ ] pascalTriangle(int n)**
- **public static void printPascalTriangle(int[ ] [ ] triangle)**

Your Mission:

public static int[ ] removeDuplicates(int[ ] list)

Write a method that returns a new array by eliminating the duplicate values from the input array. Do not delete items from the original list.

public static int[ ][ ] productArray(int[ ] arr1, int[ ] arr2)

Write a method that accepts two arrays of identical size and returns a multidimensional array containing the product of each combination of elements. This is similar to building a multiplication table, but this time using arrays.

public static int[ ][ ] pascalTriangle(int n)

Write a method that takes an integer n, and returns a two-dimensional “jagged” array holding n-rows of Pascal’s triangle.

public static void printPascalTriangle(int[ ][ ] pTriangle)

Write a method that takes a two-dimensional array and prints it out. Format the printing so the triangle appears as below. (Example shows a triangle for n=6)