**Arrays Written Assignment**

**Section 1 - Declaring Arrays**

Declare an Array that can hold 20 double values named *results*.

Declare and populate an array of Strings that holds the names of the five food groups. Call it *foodGroups*

Declare an array of boolean values that can store up to 85 values. Call it *isSingle*.

**Section 2 - Populating Arrays**

Assume you have an array of integers. You want to fill this array with prime numbers. Write a **method** that will return called *buildPrimeArray*. The method accepts an integer, which is the size of the array of prime numbers returned from the method. You are provided the following method and can use it in your solution:

**public** **static** **boolean** isPrime(**int** n){

**for**(**int** x =2; x <n; x++)

**if**(n % x ==0 ) **return** **false**;

**return** **true**;}

Write a method called *combine* that will accept two arrays of Strings. It will build a new String array which holds all of the Strings from both String arrays with no repeats.

public static void main(String args[]){

String[] list1 = {"apple", "banana", "pear", "pineapple", "peach", "orange", "lemon"};

String[] list2 = {"strawberry", "lemon", "melon", "blueberry", "eggplant", "pear"};

String[] masterList = combine(list1, list2);

outputArray(masterList);

}