Lab 6

Instructions

Log into cs.bridgewater.edu. Change your working directory to the **csci101/labs** directory that you created inside your Git repository. Create a directory named **lab6** and change your working directory to **csci101/labs/lab6**.

Write a Java class named **ArrayPlay**. The class should contain a main method and methods with the following signatures and behavior.

static void printArray(int[] arr)

printArray( ) takes an array of integers as an argument and prints the elements in the array on a single line with spaces between them.

static boolean contains(int[] arr, int x)

contains( ) takes an array of integers and an integer as arguments and returns true if the value of the second argument is found in the array passed in as the first argument. Otherwise, the method returns false.

static int[] clone(int[] arr)

clone( ) takes an array of integers as the first argument and returns a new array having the same size and containing the same elements as the array passed into the method.

static int[] eliminateDuplicates(int[] arr)

eliminateDuplicates( ) takes an array of integers as an argument and returns a new array containing a single instance of each value that is in the array passed into the method.

public static void main(String[] args)

main( ) should ask the user to enter an integer indicating the size of an array and then read in that integer. The program should then create an array of that size and fill it with values **entered by the user**.

The program should then call each of the above methods 1 or more times to determine if they are working properly.