CSA0985 – PROGRAMMING IN JAVA FOR MOBILE APPLICATIONS

ASSIGNMENT:

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    public class RemoveDuplicateInArrayExample{

public static int removeDuplicateElements(int arr[], int n){
    if (n==0 | n==1)
       return n;
    int[] temp = new int[n];
    int j = 0;
    for (int i=0; i<n-1; i++){
      if (arr[i] != arr[i+1]){
         temp[j++] = arr[i];
    temp[j++] = arr[n-1];
    for (int i=0; i<j; i++){
       arr[i] = temp[i];
    return j;
  public static void main (String[] args) {
    int arr[] = \{10,20,20,30,30,40,50,50\};
    int length = arr.length;
    length = removeDuplicateElements(arr, length);
    for (int i=0; i<length; i++)
      System.out.print(arr[i]+" ");
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if (a[i] > a[j])
           temp = a[i];
           a[i] = a[j];
           a[j] = temp;
    return a[1];//2nd element because index starts from 0
public static void main(String args[]){
int a[]={1,2,5,6,3,2};
int b[]={44,66,99,77,33,22,55};
System.out.println("Second smallest: "+getSecondSmallest(a,6));
System.out.println("Second smallest: "+getSecondSmallest(b,7));
}}
3. import java.util.Arrays;
public class LargestNumberSample {
 public static void main(String args[]){
   int array[] = \{10, 20, 25, 63, 96, 57\};
   int size = array.length;
   Arrays.sort(array);
   System.out.println("sorted Array ::"+Arrays.toString(array));
   int res = array[size-2];
   System.out.println("2nd largest element is ::"+res);
4. import java.io.*;
import java.util.*;
class GFG {
       private static void FindCommonElemet(String[] arr1,String[] arr2)
               Set<String> set = new HashSet<>();
               for (int i = 0; i < arr1.length; i++) {
                       for (int j = 0; j < arr2.length; j++) {
                              if (arr1[i] == arr2[j]) {
                                      set.add(arr1[i]);
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break;
               for (String i : set) {
                      System.out.print(i + " ");
       public static void main(String[] args)
               String[] arr1
                      = { "Article", "in", "Geeks", "for", "Geeks" };
               String[] arr2 = { "Geeks", "for", "Geeks" };
               System.out.println("Array 1: "+ Arrays.toString(arr1));
               System.out.println("Array 2:+ Arrays.toString(arr2));
         System.out.print("Common Elements: ");
               FindCommonElemet(arr1, arr2);
5. public class Vowel Check {
 public static void main(String[] args) {
  try {
   String text = "Java handling and managing exceptions";
   System.out.println("Original string: " + text);
   checkVowels(text);
   System.out.println("String contains vowels.");
  } catch (NoVowelsException e) {
   System.out.println("Error: " + e.getMessage());
public static void checkVowels(String text) throws NoVowelsException {
  boolean containsVowels = false;
  String vowels = "aeiouAEIOU";
for (int i = 0; i < text.length(); i++) {
   char ch = text.charAt(i);
   if (vowels.contains(String.valueOf(ch))) {
    containsVowels = true;
    break;
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if (!containsVowels) {
  throw new NoVowelsException("String does not contain any vowels.");
class NoVowelsException extends Exception {
public NoVowelsException(String message) {
 super(message);
}
```