LAB-2

import java.util.Arrays;

public class SecondSmallest {

public static void main(String args[])

{

int [] array= {10,20,3,5};

SecondSmallest small=new SecondSmallest();

System.out.println(small.getSecondSmallest(array));

}

public int getSecondSmallest(int [] array)

{

Arrays.sort(array);

return array[1];

}

}

import java.util.Arrays;

public class StringSort {

public static void main(String[] args) {

// TODO Auto-generated method stub

String [] array= {"hi","how","are","you","doing?"};

StringSort sort=new StringSort();

String changed=sort.sortStrings(array);

System.out.println(changed);

}

public String sortStrings(String [] array)

{

String [] upperlower=new String[array.length];

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

{

if(array.length%2==0)

{

if(i<array.length/2)

{

upperlower[i]=array[i].toUpperCase();

}

else

{

upperlower[i]=array[i].toLowerCase();

}

}

else

{

if(i<(array.length/2)+1)

{

upperlower[i]=array[i].toUpperCase();

}

else

{

upperlower[i]=array[i].toLowerCase();

}

}

}

if(array.length%2==0)

{

Arrays.sort(upperlower,0,(array.length/2));

Arrays.sort(upperlower,(array.length/2),array.length);

}

else

{

Arrays.sort(upperlower,0,(array.length/2)+1);

Arrays.sort(upperlower,((array.length/2)+1),array.length);

}

String sortDone="";

for(String afterDone:upperlower)

{

sortDone=sortDone+afterDone+" ";

}

return sortDone;

}

}

import java.util.Arrays;

public class ReverseArray {

public static void main(String args[])

{

int array[]= {23,1,3,5,123,55};

ReverseArray sortedReverse=new ReverseArray();

int [] afterSorted=sortedReverse.getSorted(array);

for(int element:afterSorted)

{

System.out.println(element+" ");

}

}

public int[] getSorted(int [] array)

{

int [] newArray=new int[array.length];

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

{

String reverse=Integer.toString(array[i]);

StringBuilder sb=new StringBuilder(reverse);

newArray[i]=Integer.parseInt(sb.reverse().toString());

}

Arrays.sort(newArray);

return newArray;

}

}

import java.util.\*;

public class RemoveDuplicates {

public static void main(String[] args) {

// TODO Auto-generated method stub

int [] array= {10,20,10,30,50,87,598};

RemoveDuplicates remove=new RemoveDuplicates();

int [] afterArray=remove.modifyArray(array);

for(int element:afterArray)

{

System.out.println(element);

}

}

public int [] modifyArray(int [] array)

{

int count=0,flag=0;

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

{

for(int j=i+1;j<array.length;j++)

{

if(array[i]==array[j])

{

for(int k=j;k<array.length-1;k++)

{

array[k]=array[k+1];

if(j==array.length)

{

flag=1;

}

}

count++;

}

}

}

if(flag==0)

{

array[count-1]=array[array.length-1];

count++;

}

int alterArray[]=new int[array.length-count];

System.out.println(array.length-count);

for(int i=0;i<array.length-count;i++)

{

alterArray[i]=array[i];

}

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

{

for(int j=i+1;j<alterArray.length;j++)

{

if(alterArray[i]<alterArray[j])

{

int temp=alterArray[i];

alterArray[i]=alterArray[j];

alterArray[i]=temp;

}

}

}

return alterArray;

}

}