//-------------------------------------MyServer1.java---------------------------------------------//

import java.lang.\*;

import java.io.\*;

import java.net.\*;

public class MyServer1

{

DataInputStream dis;

DataOutputStream diso;

ServerSocket ss;

Socket s;

static int n;

static int array[];

static StringBuilder sb;

static StringBuilder result;

void establishConnection()

{

try

{

ss=new ServerSocket(8776);

s=ss.accept();//establishes connection

dis=new DataInputStream(s.getInputStream());

diso=new DataOutputStream(s.getOutputStream());

}

catch(Exception e)

{

System.out.println(e);

}

}

void getData()

{

try

{

String str=(String)dis.readUTF();

n = Integer.parseInt(str);

array=new int[n];

for(int i=0;i<n;i++)

{

str=(String)dis.readUTF();

array[i]=Integer.parseInt(str);

}

}

catch(Exception e)

{

System.out.println(e);

}

}

void sendResult()

{

try

{

diso.writeUTF(sb.toString());

diso.writeUTF(result.toString());

diso.flush();

diso.close();

ss.close();

}

catch(Exception e)

{

System.out.println(e);

}

}

public static void main(String[] args)

{

MyServer1 b = new MyServer1();

b.establishConnection();

b.getData();

int i;

sb = new StringBuilder();

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

{

//System.out.println(array[i]);

sb.append(array[i]+" ");

}

System.out.println();

odd\_even\_srt(array,array.length);

result = new StringBuilder();

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

{

//System.out.println(array[i]);

result.append(array[i]+" ");

}

System.out.println();

b.sendResult();

}

public static void odd\_even\_srt(int array[],int n)

{

for (int i = 0; i < n/2; i++ )

{

for (int j = 0; j+1 < n; j += 2)

{

Runnable t1=new mythread(array,j);

Thread t2=new Thread(t1);

t2.start();

}

for (int j = 1; j+1 < array.length; j += 2)

{

Runnable t3=new mythread(array,j);

Thread t4=new Thread(t3);

t4.start();

}

}

}

}

class mythread implements Runnable

{

int j;

private int[] array;

public mythread(int arr[],int j)

{

this.j=j;

this.array=arr;

}

public void run()

{

if (array[j] > array[j+1])

{

int T = array[j];

array[j] = array[j+1];

array[j+1] = T;

}

}

}

//--------------------------------------oe.jsp----------------------------------//

<%@ page import="java.io.\*, java.net.\*" %>

<HTML>

<BODY>

<form action="sort1.jsp">

<br><br><br><br>

<center>Enter number of elements:</center>

<br>

<center><input type="text" name="number1" id="number1"/></center>

<br><br>

<center><input type="submit" name="sub" id="sub" value="OK"/></center>

<br><br>

</BODY>

</HTML>

//----------------------------------------------sort1.jsp---------------------------------//

<%@ page import="java.io.\*, java.net.\*" %>

<HTML>

<BODY>

<center>Number of elements:

<form action="sort.jsp">

<input name="number1" type="text"

value='<%=request.getParameter("number1")%>' /></center>

<%

String str1 = request.getParameter("number1");

int n = Integer.parseInt(str1);

%>

<center>Enter the elements:</center>

<%

for(int i=0;i<=n-1;i++)

{

String str="num"+i;

%>

<center><input type="text" name='<%=str%>' /></center>

<%

}

%>

<center><input type="submit" name="sub" id="sub" value="OK"/></center>

</BODY>

</HTML>









