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\* Period A

\* \*\*\*\*\*Program Description\*\*\*\*\*

\* This program takes 10 names, ages, and incomes from the user and sorts them by age.

\* \*\*\*\*\*Variable Dictionary\*\*\*\*\*

\* int age - holds on to the ages inputed by the user

\* String agestring - hold on to the inputed age before it is an int

\* int count - a counter for multiple while loops

\* int d - hold the dynamic value to be sorted

\* double income - holds on to the incomes inputed by the user

\* String incomestring - hold on to the inputed income before it is an double

\* ObjectSort list [] - the array for holding all the values

\* String name -

\* String original [] - holds all of the unsorted values

\* int s - holds the static value to be sorted

\* String sorted [] - holdas all of the sorted values

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import javax.swing.JOptionPane;

public class ObjectSort

{

String name;

int age;

double income;

public static void main (String args [])

{

ObjectSort list [] = new ObjectSort [11];

String original [] = new String [11];

String sorted [] = new String [11];

int count = 1;

array (list, original); //runs array method

sort (list, sorted); //runs sort method

JOptionPane.showMessageDialog (null, "\*\*ORIGINAL\*\*\n" + original[1] + original[2] + original[3] + original[4] + original[5] + original[6]

+ original[7] + original[8] + original[9] + original[10] + "\*\*SORTED\*\*\n" + sorted[1] + sorted[2] + sorted[3] + sorted[4] + sorted[5]

+ sorted[6] + sorted[7] + sorted[8] + sorted[9] + sorted[10]); //output using original and sorted arrays

} //end of main method

public static void array (ObjectSort list [], String original [])

{

int count = 1;

while (count <= 10) //loop for all inputs

{

ObjectSort pointer = new ObjectSort ();

list[count] = pointer; //clears pointer

list[count].name = JOptionPane.showInputDialog (null, "What is the name of person " + count + "?"); //input of name

String agestring = JOptionPane.showInputDialog (null, "What is the age of person " + count + "?"); //input of age

list[count].age = Integer.parseInt(agestring); //age to an int

String incomestring = JOptionPane.showInputDialog (null, "What is the income of person " + count + "?"); //input of income

list[count].income = Double.parseDouble(incomestring); //income to a double

original[count] = ("Name: " + list[count].name + " |Age: " + list[count].age + " |Income: " + list[count].income + "\n"); //concatanates into a new array to be printed

count = count + 1; //counter goes up 1

}

} //end of array method

public static void sort (ObjectSort list [], String sorted [])

{

int count = 1;

for (int s = 1; s < 10; s++) //starts sort loop

{

for (int d = s + 1; d <= 10; d++)

{

if(list[s].age > list[d].age)

{

list [0] = list [d];

list [d] = list [s];

list [s] = list [0];

}

}

}

while (count<= 10)

{

sorted[count] = ("Name: " + list[count].name + " |Age: " + list[count].age + " |Income: " + list[count].income + "\n"); //concatanates values into an new array to be printed

count = count + 1; //counter goes up 1

}

} //end of sort method

}