wk2-Sorting at Scale

Saturday, December 12, 2020 10:00 PM

Congratulations! You passed!

TO PASS 65% or higher

Keep Learning

GRADE 100%

Sorting at Scale

TOTAL POINTS 3

1. For the assignment, you modified the **compareTo** method in the class QuakeEntry to sort earthquakes by their magnitude first, from smallest magnitude to largest magnitude, and to break ties by their depth, from largest depth to smallest depth using the **Collections.sort** method. Modify the **sortWithCompareTo** method in the DifferentSorters class to print out the QuakeEntry in position 50 after sorting the QuakeEntry's by the above method. Run this method on the file **earthQuakeDataDec6sample2.atom**. **1 / 1 point**

   What is the depth of the earthquake that is in position 50 after the earthquakes are sorted by the above method?

   -3640.00

   ✓ **Correct**

2. For the assignment, you wrote the **TitleAndDepthComparator** class to sort earthquakes by their title first, in alphabetical order, and to break ties by their depth, from smallest depth to largest depth. You then used the **Collections.sort** method with the TitleAndDepthComparator. Modify the **sortByTitleAndDepth** method in the DifferentSorters class to print out the QuakeEntry in position 50 after sorting the QuakeEntry's by the above method. Run this method on the file **earthQuakeDataDec6sample1.atom**. **1 / 1 point**

   What is the depth of the earthquake that is in position 50 after the earthquakes are sorted by the above method?

   -1380.00

   ✓ **Correct**

   (38.84, -122.77), mag = 1.00, depth = -1380.00, title = 4km WNW of Cobb, California

3. For the assignment, you wrote the **TitleLastAndMagnitudeComparator** class to sort earthquakes by the last word in their title first, in alphabetical order, and to break ties by their magnitude, from smallest magnitude to largest magnitude. You then used the **Collections.sort** method with the TitleLastAndMagnitudeComparator. Modify the **sortByLastWordInTitleThenByMagnitude** method in the DifferentSorters class to print out the QuakeEntry in position 50 after sorting the QuakeEntry's by the above method. Run this method on the file **earthQuakeDataDec6sample2.atom**. **1 / 1 point**

   What is the depth of the earthquake that is in position 50 after the earthquakes are sorted by the above method?

What is the depth of the earthquake that is in position 50 after the earthquakes are sorted by the above method?

-175320.00

✓ **Correct**

(-23.27, -67.66), mag = 4.80, depth = -175320.00, title = 69km SE of San Pedro de Atacama, Chile