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Example Class{

Merge Sort Class

Merge Sort Class methods

* MergeSort(ArrayList<String> input): Contructor
* Sort: void
* mergeSort(ArrayList<String> whole): ArrayList<String>
* merge(ArrayList<String> left, ArrayList<String> right, ArrayList<String> whole):void
* show(): String
* showDesc():String
* distance(double lat1, double lon1, double lat2, double lon2, char unit) : double
* deg2rad(double deg): double
* rad2deg(double rad): double

}

Above are the methods that were implemented in the main Example Class. The GUI is also run through the main Example Class.

Using the GUI:

So basically it will take you through a set of prompts. The main class will only take in files within the same directory. Follow instructions on the dialogue boxes to retrieve outputs.

Data Structure:

In order to read the file, I used a buffered reader to read each line and each line is split by tabs. As each data field was being split, I put them in a string array in order to tokenize them. I decided to use TreeMaps to store the individual the data. We did not talk about treemaps so I did not have to implement this data structure. I used the key to store the venueID and I put the other datafields for the venueID as the value. The value of the treemap held an array Within an Array. This allowed to hold multiple datasets for a single venueID.

Disclaimer:

I’ve only used this on the 10,000 line data text. However, it works and I would assume it work for the bigger files. I also made the assumption when the question asked for “name” of venue it was referring to the venueID.