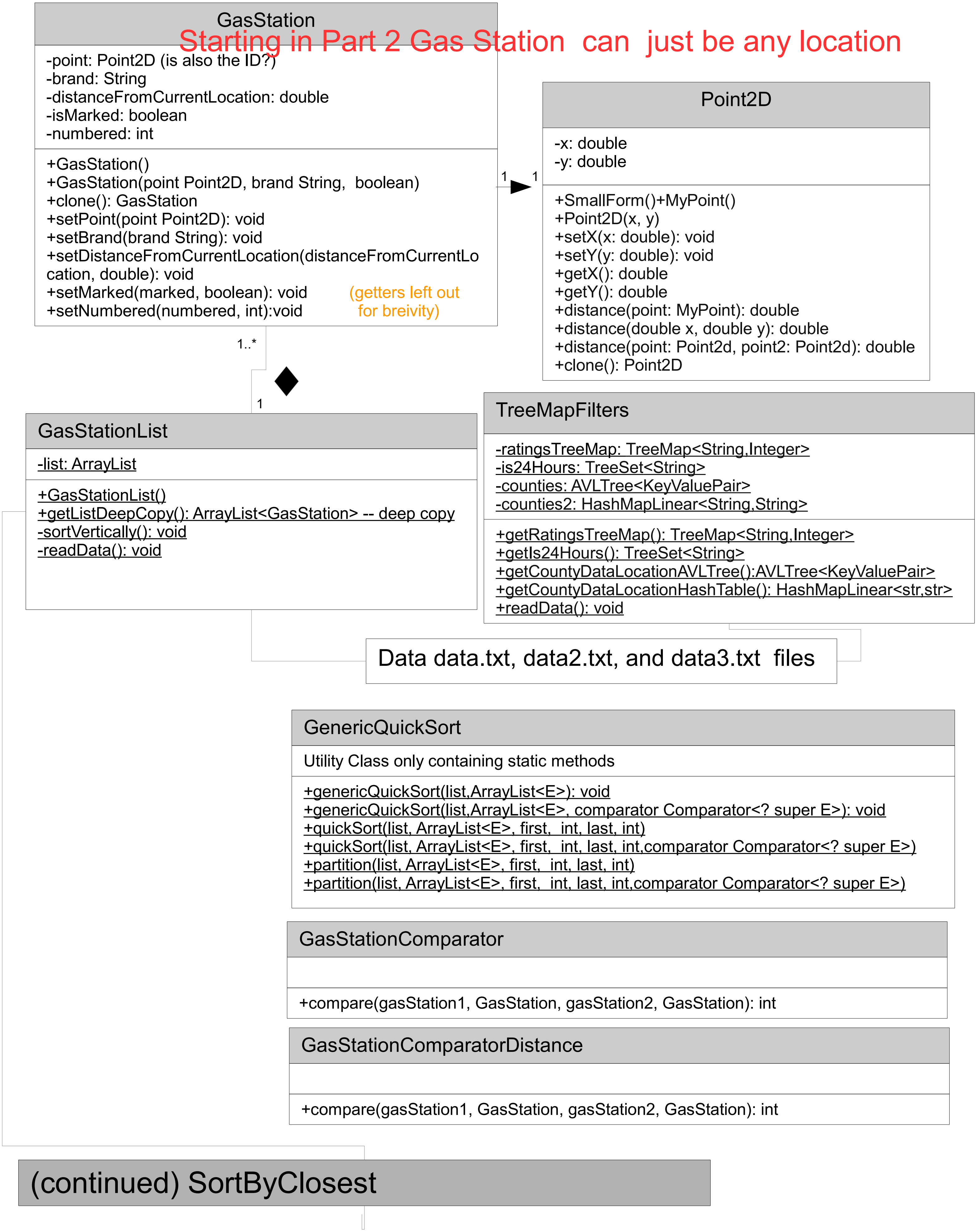


GasStation

Starting in Part 2 Gas Station can just be any location

-point: Point2D (is also the ID?)
-brand: String
-distanceFromCurrentLocation: double
-isMarked: boolean
-numbered: int

+GasStation()
+GasStation(point Point2D, brand String, boolean)
+clone(): GasStation
+setPoint(point Point2D): void
+setBrand(brand String): void
+setDistanceFromCurrentLocation(distanceFromCurrentLocation, double): void
+setMarked(marked, boolean): void
+setNumbered(numbered, int):void

(getters left out for breivity)

Point2D

-x: double
-y: double

+SmallForm()+MyPoint()
+Point2D(x, y)
+setX(x: double): void
+setY(y: double): void
+getX(): double
+getY(): double
+distance(point: MyPoint): double
+distance(double x, double y): double
+distance(point: Point2d, point2: Point2d): double
+clone(): Point2D

GasStationList

-list: ArrayList

+GasStationList()
+getListDeepCopy(): ArrayList<GasStation> -- deep copy
-sortVertically(): void
-readData(): void

TreeMapFilters

-ratingsTreeMap: TreeMap<String,Integer>
-is24Hours: TreeSet<String>
-counties: AVLTree<KeyValuePair>
-counties2: HashMapLinear<String,String>

+getRatingsTreeMap(): TreeMap<String,Integer>
+getIs24Hours(): TreeSet<String>
+getCountyDataLocationAVLTree():AVLTree<KeyValuePair>
+getCountyDataLocationHashTable(): HashMapLinear<str,str>
+readData(): void

Data data.txt, data2.txt, and data3.txt files

GenericQuickSort

Utility Class only containing static methods

+genericQuickSort(list,ArrayList<E>): void
+genericQuickSort(list,ArrayList<E>, comparator Comparator<? super E>): void
+quickSort(list, ArrayList<E>, first, int, last, int)
+quickSort(list, ArrayList<E>, first, int, last, int,comparator Comparator<? super E>)
+partition(list, ArrayList<E>, first, int, last, int)
+partition(list, ArrayList<E>, first, int, last, int,comparator Comparator<? super E>)

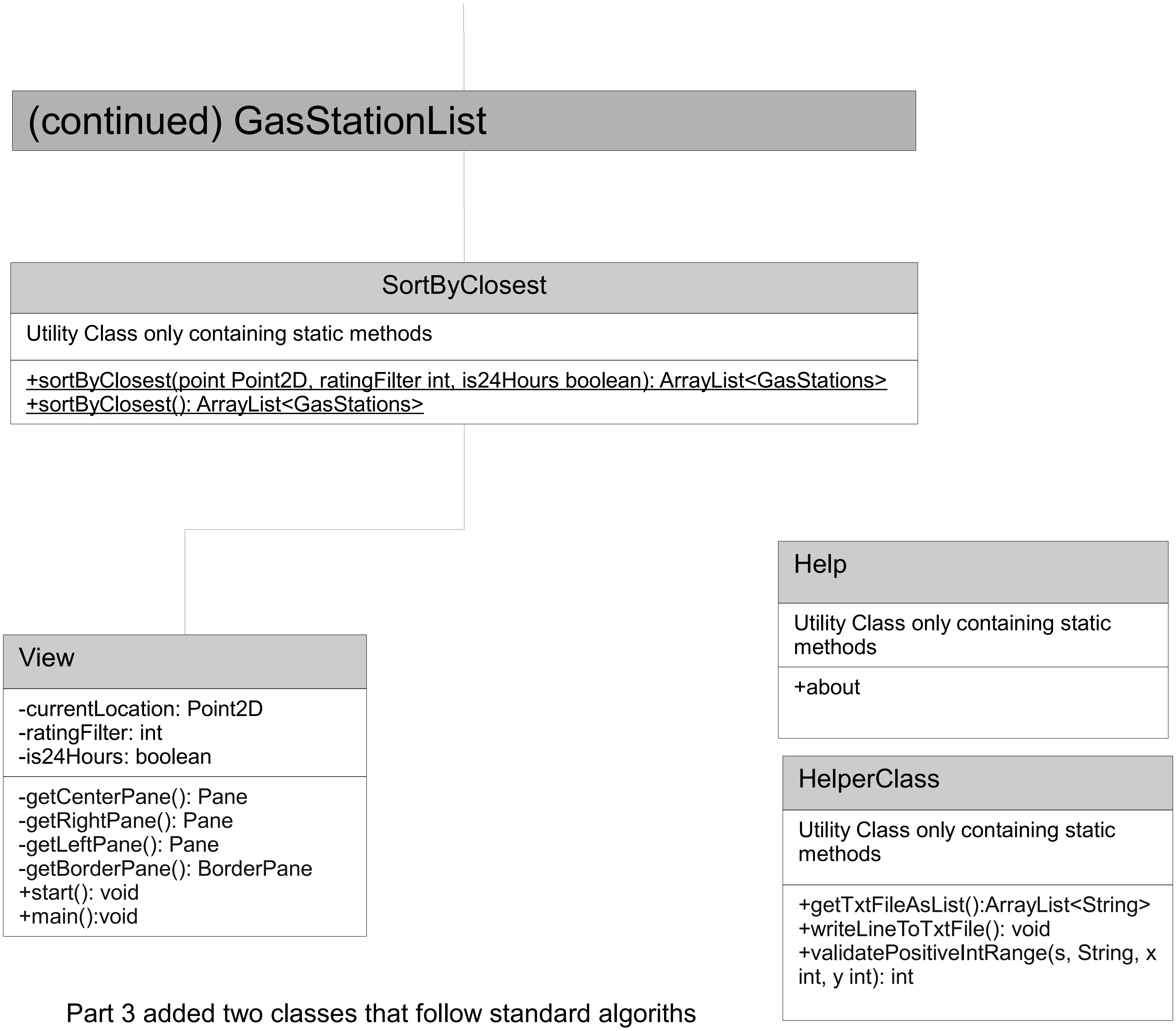
GasStationComparator

+compare(gasStation1, GasStation, gasStation2, GasStation): int

GasStationComparatorDistance

+compare(gasStation1, GasStation, gasStation2, GasStation): int

(continued) SortByClosest



(continued) GasStationList

SortByClosest

Utility Class only containing static methods

+sortByClosest(point Point2D, ratingFilter int, is24Hours boolean): ArrayList<GasStations>
+sortByClosest(): ArrayList<GasStations>

View

-currentLocation: Point2D
-ratingFilter: int
-is24Hours: boolean

-getCenterPane(): Pane
-getRightPane(): Pane
-getLeftPane(): Pane
-getBorderPane(): BorderPane
+start(): void
+main():void

Help

Utility Class only containing static methods

+about

HelperClass

Utility Class only containing static methods

+getTxtFileAsList():ArrayList<String>
+writeLineToTxtFile(): void
+validatePositiveIntRange(s, String, x int, y int): int

Part 3 added two classes that follow standard algoriths for AVLTree and HashMap(HashMapLinear)
(linear open addressing)). Since methods and data fields are standard fare they are left out for breivity.
-See program comments for more info
-These classes are implemented in the TreeMapFilters Class which as of Assignment 3 the TreeMapFilters class is sort of a BST/HashTable Tools Helper class.