Created by Kien Do 1 0..* has ▶ <<interface>> **TaxiClusters** TripRecord Comparable<T> - pickup DateTime : String ~ COMMA DELIMITER: static String + compareTo(Object): int - pickup Location : GPScoord ~ DATASET NAME: static String - dropoff Location : GPScoord ~ CSV DATA LIST: static List<List<String>> - trip Distance : float ~ PICKUP DATETIME : static int 1 - label : String ~ TRIP DISTANCE : static int ~ START LON: static int implements ~ START LAT: static int + constructor() ~ END LON: static int + constructor(String, GPScoord, GPScoord, float) 0..* ~ END LAT: static int + getter/setter() ~ EPS : double + printTripRecord(): void Cluster ~ MIN PTS: int + calculateDistance(TripRecord) : double uses ▼ ~ TRIPS : ArravList<TripRecord> + toString(): String - cluster : List<TripRecord> ~ CLUSTERS : ArrayList<Cluster> **GPScoord** + constructor() + main(String[]): void + getters/setters() + DBSCAN(): void - longitude : double + printCluster(): void - latitude : double + rangeQuery(TripRecord) : ArrayList<TripRecord> + add(List<TripRecord>): void + readToTripRecord(): void + averagePickupCoord(): GPScoord + readDataIntoList(): void + createCSV(): void + constructor() + printListData(): void + toString(): String + constructor(latitude double, longitude double) + createAndWriteResultsToCSV(): void + compareTo(Cluster): int + getter/setter() + printCoordinates(): void + toString(): String 0..1 -has ▶