CONTRACT CO1: loadTrain()

- Operation:
 - loadTrainConnectionsFromCSV(CSVPath: String).
- Cross reference:
 - Use case: Load Train Network.
- Pre-conditions:
 - CSV path is readable.
- Post-conditions:
 - Instance Train connection is created for each line.
 - Each connection is contained in TrainConnectionCatalog.
 - Instance of TrainGraph is created from TrainConnectionCatalog .

CONTRACT CO2: planTrip()

- Operation:
 - planTrip(departureCity: String, arrivalCity: String, trainTypes: Set<TrainType>, departureDays: Set<DayOfWeek>).
- Cross reference:
 - Use case: Plan Trip.
- Pre-conditions:
 - Traingraph object exists and isn't empty.
- Post-conditions:
 - a Predicate p was created from trainTypes and departureDays.
 - a list pathResults is created by querying for routes with up to two intermediate paths.
 - for each possible route, a PathResult pr was created.
 - the operation returns pathResults.

CONTRACT CO3: sortByPrice()

- Operation:
 - sortByPrice(choiceClass).
- Cross reference:
 - Use Case: sortByPrice.
- Pre-conditions:
 - A path result exists.
 - Choice of class (user input).
- Post-conditions:
 - If the option of price is chosen then pathResults was reordered in ascending order buy price.
 - Instance of comparator cmp was created.
 - Sort by second class tickets by default.
 - Displays reordered pathResults/ pathresultcatalog.

CONTRACT CO4: sortByDuration()

- Operation:
 - sortByDuration().
- Cross reference:
 - Use Case: sortByDuration.
- Pre-conditions:
 - A path result exists.
- Post-conditions:
 - Instance of comparator cmp was created.
 - Display second class tickets by default.
 - PathResults is reordered in ascending totalDuration.
 - Displays reordered pathResults/ pathresultcatalog.