**class CommuterTrain**

INSTANCE VARS (Attributes)

Name Type Description

peopleOnBoard int

maxCapacity int

currentStation int

numStations int # stations on the route

destStation int

peopleBoarding int

peopleLeaving int

ranNumGenerator Random Java object to generate random numbers

METHODS (Behaviors)

Name Return type Parameters Description

CommuterTrain NA Number of stations Use to set numStations

Max Capacity Use to set maxCapacity

Current Station Use to set currentStation

InitpeopleOnBoard = 0

InitdestStation = currentStation

Instantiates a Java Random object

getPeopleOnBoard int

getMaxCapacity int

getCurrentStation int

getNumStations int

getDestStation int

loadPax void Loads the train at the first station

moveToStation void Destination station Displays station # it’s leaving, station # it

is heading to, and #pax on board

genRandNumber int (max value of Generates random # from 0 to

random number) max value passed in

unloadPeople void none Offload a random # of people

returned from genRandNumber

Updates peopleOnBoard

loadPeople void none Loads a random # of people

returned from genRandNumber,

but only up to maxCapacity.

Updates peopleOnBoard.

**Class StationClass**

INSTANCE VARS (Attributes)

Name Type Description

passengersWaiting int

METHODS (Behaviors)

Name Return type Parameters Description

getPassengersWaiting int

reduceNumberWaiting int the # of people

getting on the train

loadFromStation void loads as many people as possible

unloadAll void unloads the entire train (sets # on

board to 0)