Project: 4

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CPT 233 W01

**Data**

Name Type Description

numStations int Number of stations serviced

maxCapacity int Maximum passengers on board

currentStation int Current station of train

destStation int Next station

peopleOnBoard int Current amount of people on board

numOfLoad int Number of people loading/unloading

**Methods**

Name Type Parameters In Purpose

CommuterTrain NA Max Capacity sets instance variables

Current Station set peopleOnBoard = 0

Number of stations Seeds random number gen

getCurrentStation int none returns currentStation

genRandNumber int max value random number Generates random number 0 – max value

getPeopleOnBoard int none returns peopleOnBoard

getMaxCapacity int none returns maxCapacity

getNumStations int none returns numStations

getDestStation int none returns destStation

moveToStation void Destination station Display station # leaving

station # heading to, and

# people on board

unloadPeople void none offload ran # of people

returned by genRandNum

updates peopleOnBoard

loadPeople void none Loads a rand # of people

returned from genRandNumber,

but only up to maxCapacity.

Updates peopleOnBoard.

setDestStation void none sets destStation

setCurrentStation void none setsCurrentStation