

SAMPLE INTERACTIONS

There are a number of different printouts here, as development of the program progresses. First, get the cars to move:

```
Running the RideShare Simulation1!  
Establishing 3 stations...  
Generating non-random cars with locations and destination...
```

```
Station status  
Station@42f75e24[stnNum=0,passengers[]]  
Station@3120007d[stnNum=1,passengers[]]  
Station@ff6034b[stnNum=2,passengers[]]  
Car@766efc68[loc=0,dest=2,passengers=[]]  
Car@e909aff[loc=1,dest=1,passengers=[]]  
Car@3f0250b8[loc=2,dest=0,passengers=[]]  
Calling the .move() process for all cars...  
Station status  
Station@42f75e24[stnNum=0,passengers[]]  
Station@3120007d[stnNum=1,passengers[]]  
Station@ff6034b[stnNum=2,passengers[]]  
Car@766efc68[loc=1,dest=2,passengers=[]]  
Car@e909aff[loc=1,dest=1,passengers=[]]  
Car@3f0250b8[loc=1,dest=0,passengers=[]]  
Again calling the .move() process for all cars...  
Station status  
Station@42f75e24[stnNum=0,passengers[]]  
Station@3120007d[stnNum=1,passengers[]]  
Station@ff6034b[stnNum=2,passengers[]]  
Car@766efc68[loc=2,dest=2,passengers=[]]  
Car@e909aff[loc=1,dest=1,passengers=[]]  
Car@3f0250b8[loc=0,dest=0,passengers=[]]
```

Now, let's put some passengers at the Stations and see if we can get them to board a car. Test run:

```
Running the RideShare Simulation1!  
Establishing 3 stations...  
Generating non-random cars with locations and destination...  
Generating non-random passengers with locations and destinations...  
Station status  
Station@308e9e37[stnNum=0,passengers[Passenger@170afd96[loc=0,dest=1]]]  
Station@cb8d027[stnNum=1,passengers[]]  
Station@6161e8a6[stnNum=2,passengers[]]  
Car@255aad9b[loc=0,dest=2,passengers=[]]  
Station status  
Station@308e9e37[stnNum=0,passengers[]]  
Station@cb8d027[stnNum=1,passengers[]]  
Station@6161e8a6[stnNum=2,passengers[]]  
Car@255aad9b[loc=1,dest=2,passengers=[Passenger@170afd96[loc=0,dest=1]]]
```

You can see in this listing that Passenger@170 was at the station, but in the next round is no longer at the station—that passenger is now in Car@225.

Here's another type of printout focusing just on the Stations, the Passengers at those stations, and the Cars at those stations:

Running the RideShare Simulation!
Establishing 5 stations...
Generating non-random cars with locations and destination...
Generating non-random passengers with locations and destinations...

Station status

```
Station@3243e095[stnNum=0,passengers[Passenger@61085a40[loc=0,dest=4]],cars[Car@cd6d477[loc=0,dest=4,passengers=[]]]]
Station@608a52c7[stnNum=1,passengers[Passenger@4de0410b[loc=1,dest=4]],cars[]]
Station@6e99d8ad[stnNum=2,passengers[Passenger@5456cc65[loc=2,dest=4]],cars[]]
Station@66f8a042[stnNum=3,passengers[Passenger@29df5d8f[loc=3,dest=4]],cars[]]
Station@923a4a9[stnNum=4,passengers[],cars[]]
```

Station status

```
Station@3243e095[stnNum=0,passengers[],cars[]]
Station@608a52c7[stnNum=1,passengers[],cars[]]
Station@6e99d8ad[stnNum=2,passengers[],cars[]]
Station@66f8a042[stnNum=3,passengers[Passenger@29df5d8f[loc=3,dest=4]],cars[]]
Station@923a4a9[stnNum=4,passengers[],cars[Car@cd6d477[loc=4,dest=4,passengers=[]]]]
]
```

Station status

```
Station@3243e095[stnNum=0,passengers[],cars[]]
Station@608a52c7[stnNum=1,passengers[],cars[]]
Station@6e99d8ad[stnNum=2,passengers[],cars[]]
Station@66f8a042[stnNum=3,passengers[Passenger@29df5d8f[loc=3,dest=4]],cars[]]
Station@923a4a9[stnNum=4,passengers[],cars[Car@cd6d477[loc=4,dest=4,passengers=[]]]]
]
```

Station status

```
Station@3243e095[stnNum=0,passengers[],cars[]]
Station@608a52c7[stnNum=1,passengers[],cars[]]
Station@6e99d8ad[stnNum=2,passengers[],cars[]]
Station@66f8a042[stnNum=3,passengers[Passenger@29df5d8f[loc=3,dest=4]],cars[]]
Station@923a4a9[stnNum=4,passengers[],cars[Car@cd6d477[loc=4,dest=4,passengers=[]]]]
]
```

Station status

```
Station@3243e095[stnNum=0,passengers[],cars[]]
Station@608a52c7[stnNum=1,passengers[],cars[]]
Station@6e99d8ad[stnNum=2,passengers[],cars[]]
Station@66f8a042[stnNum=3,passengers[Passenger@29df5d8f[loc=3,dest=4]],cars[]]
Station@923a4a9[stnNum=4,passengers[],cars[Car@cd6d477[loc=4,dest=4,passengers=[]]]]
]
```

Station status

```
Station@3243e095[stnNum=0,passengers[],cars[]]
Station@608a52c7[stnNum=1,passengers[],cars[]]
Station@6e99d8ad[stnNum=2,passengers[],cars[]]
Station@66f8a042[stnNum=3,passengers[Passenger@29df5d8f[loc=3,dest=4]],cars[]]
Station@923a4a9[stnNum=4,passengers[],cars[Car@cd6d477[loc=4,dest=4,passengers=[]]]]
]
```

Passenger Miles / Miles Driven: 9 / 4

By the time the simulation is over, 3 passengers have traveled a total of 9 miles, in a single car that had traveled only 4 miles. There was a passenger at Station 3 that never got picked up because the car was full by the time it got there.