PlantUML Sequence Diagram

Root Cause Analysis

The log shows that the parking lot is full. This is the root cause for the following issues:

- The truck is not assigned a parking ticket.
- The truck is assigned a parking spot, but it is unclear if this is the correct spot for a truck.

It is possible that the parking lot is not properly configured for trucks. The code should be reviewed to ensure that it can handle trucks correctly.

Here are some additional observations from the logs:

- The parking lot creates a new parking spot for the truck.
- The truck is assigned the vehicle type TRUCK.
- The parking lot tries to find available parking spots.
- If no spots are available, the truck is not assigned a parking ticket.
- If a spot is available, the spot is assigned to the truck.

Recommendations

- Review the code to ensure that it can handle trucks correctly.
- Make sure that the parking lot is configured to handle the expected number of trucks.
- Consider adding additional logging to track the status of trucks in the parking lot.

Plant UML image was not generated due to server error - use planttext.com

```
@startuml

object ParkingLot
object Truck
object ParkingTicket
object LargeSpot

ParkingLot->Truck : Creates new parking spot
Truck->Truck : Assigns vehicle type as TRUCK
ParkingLot->LargeSpot : Finds available spot
LargeSpot->ParkingLot : Assigns spot to parking lot
ParkingLot->ParkingLot : Checks if parking is full
alt yes
  ParkingLot->Truck : Assigns None ticket
  Truck->Truck : Assigns vehicle type as TRUCK
  ParkingTicket->ParkingTicket : Gets parking ticket 10
  ParkingLot->LargeSpot : Finds available spot
  LargeSpot->ParkingLot : Assigns spot to parking lot
end
ParkingLot->LargeSpot : Assigns spot to truck
Truck->ParkingSpot : Assigns parking spot

@enduml
```

Logs:

```
2025-01-25 16:24:38,153 - root - INFO - class: ParkingLot, module:
src.parking.parkinglot, file: parkinglot.py, log: Creating new parking spot  , line:
70
2025-01-25 16:24:38,153 - root - INFO - class: Truck, module:
src.vehicle.vehicle_types, file: vehicle_types.py, log: Car type is VehicleType.TRUCK,
line: 24
2025-01-25 16:24:38,153 - root - INFO - class: ParkingLot, module:
src.parking.parkinglot, file: parkinglot.py, log: Parking full  , line: 75
2025-01-25 16:24:38,154 - root - INFO - class: Truck, module:
src.vehicle.vehicle_types, file: vehicle_types.py, log: Assigning ticket None, line:
12
2025-01-25 16:24:38,154 - root - INFO - class: Truck, module:
src.vehicle.vehicle_types, file: vehicle_types.py, log: Car type is VehicleType.TRUCK,
line: 24
2025-01-25 16:24:38,154 - root - INFO - class: ParkingTicket, module:
src.parking.parkingticket, file: parkingticket.py, log: Getting parking ticket 10,
line: 11
2025-01-25 16:24:38,154 - root - INFO - class: ParkingLot, module:
src.parking.parkinglot, file: parkinglot.py, log: Finding spot  , line: 61
2025-01-25 16:24:38,154 - root - INFO - class: ParkingSpot, module:
src.parking.parkingspot, file: parkingspot.py, log: Parking spot  assigned., line: 21
```

This is an LLM generated report - please be aware of hallucinations
(Esp if you provide an incorrect prompt/insufficient data)