class Vehicle{

VehicleType car;

String vehicleId;

String registrationNum;

boolean isReserved;

String model;

Long mileage;

String uniqueBarCode;

String createReservation(String vehicleId, String customerId) {

}

String getReservation(String vehicleId) {

` }

}

enum VehicleType {

CAR, SUV, VAN, MOTORCYCLE

}

class ParkingSpot {

String parkingSpotNum;

Vehicle vehicleNum;

Boolean isEmptySpot;

}

class Account{

String email;

String userID;

Long phoneNum;

AccountType userType;

}

class Authentication{

}

enum UserType{

ADMIN, CUSTOMER, EMPLOYEE

}

class RentalLocation{

List<Vehicle> vehicles;

List<ParkingSpot>parkingSpots;

List<Vehicle> getAvailableVehicles {

}

}

class Reservation {

String vehicleId;

TimeStamp checkOutTime;

TimeStamp checkInTime;

` Account userId;

Long totalCost;

RentalInsurance rentalInsurance;

AdditionalEquipment addEquip;

AdditionalServices addServices;

Account employee;

String createReservation()

String getBarCode(String vehicleId)

void cancelReservation()

addAdditionalServices();

addRentalInsurance();

addAdditionalEquipment();

}

class RentalInsurance {

InsuranceType insuranceType;

Long insuranceCost;

}

class AdditionalEquipment{

EquipmentType type;

Long cost;

}

class Additional Services{

ServicesType serviceType;

Long cost;

}

enum ServicesType {

ROAD\_ASSISTANCE, ADD\_DRIVER, WIFI

}

class NotificationService {

String reservationId;

void sendNotification(String reservationId, String userId)

}

class Charge{

}