Design a parking lot

Driver can

Enter parkinglot

Park a car

Pay parking fee

Drive away

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Class: Driver

Data: carLicenseNumber

Behavior:

EnterParkinglot(){

ParkinglotController.checkAvailability();

}

ParkCar(){

}

PayParkingFee(){

PaymentService.makePayment(carLicenseNumber, totalprice)

}

DriveAway(){

}

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Class: Parkinglot

Data: capacityNumber, currentCarNumber, parkingSpace, PricePerhour

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Class: ParkinglotContorller

Behavior:

checkAvailability(){

if(parkingSpace!=0){

system.out.println(“you can park your car here”);

Driver.ParkCar();

currentCarNumber++;

parkingSpace--;

}

Else{

System.out.println(“there isn’t enough parking space, you can’t park your car here”);

Driver.DriveAway();

}

}

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Class: PaymentService

Data: totalprice, parkingHours

Behavior:

makePayment(){

totalprice= parkingHours\*PricePerhour

}