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| --- |
| Car |
| -enteringTime: Time  -plateNumber: String |
| +Car(plate:String):  +getEnteringTime(): Time  +getPlatNumber(): String  +setEnteringTime(t:Time): Time  +toString(): String |

|  |
| --- |
| ParkingLot |
| -sports: Car[]  -curFmt: DecimalFormat = new DecimalFormat("$ #0.00")  - lotName: String  - lotRate: double  - lotMax: double  - lotCapacity: int  - dailyRevenue: double |
| +ParkingLot (name: String, rate: double, max: double, capacity: int)  +getDailyRevenue() : double  +getHourlyRate(): double  +getMaxCharge() : double  +getCapacity() : int  +resetDailyRevenue(): void  +resetLot(rate: double, max: double, capacity: int)  +carEnter(c: Car, t: Time): void  +carLeave(c: Car, t: Time): void  +print():void  +toString(): String  -findCar(c: Car): int  -findSpot(): int  - isLotFull(freeSpotIndex: int): boolean  -isCarFound(carFoundIndex: int): boolean  -getParkingFee(duration:double): double  -getHourFee(hours: double): double  -getminuteFee(minutes: double): double  -buildLotOutPut(): void |

|  |
| --- |
| ParkEvent |
| +ENTER: String = “Enter”  +LEAVE: String = “Leave”  -theCar: Car  -theLot: ParkingLot  - eventTime: Time  - eventType: String |
| +ParkEvent(c: Car, p:ParkingLot, t:Time, evnt:String)  +getCar(): Car  +getParkingLot(): ParkingLot  +getTime(): Time  +isEnterEvent(): boolean  +isLeaveEvent(): boolean  +toString: String |

|  |
| --- |
| ParkEventList |
| - events: ParkEvent[] |
| +add(ev: ParkEvent): void  +getEvent(ix: int): ParkEvent  +removeFirstEvent(): ParkEvent  +print(): void  -getInsertIndex(ev: ParkingEvent): int |