Problem 3. Parking

Exam problems for the "JavaScript Advanced" course @ SoftUni. Submit your solutions in the SoftUni Judge system at https://judge.softuni.bg/Contests/Compete/Index/2590#2

Write a **class Parking**, which implements the following functionality:

Functionality

constructor (capacity)

Should have these 2 properties:

- capacity number;
- vehicles array;

Hint: You can add more properties to help you finish the task.

addCar(carModel, carNumber)

The carModel and carNumber are of type string.

• If there's **not enough parking spots** for the car the park, **throw an Error**:

"Not enough parking space."

Otherwise this function should add the car, with the properties: carModel, carNumber, payed: default false, to the vehicles array and return:

"The {carModel}, with a registration number {carNumber}, parked."

removeCar(carNumber)

• If the car is not found, throw an Error:

"The car, you're looking for, is not found."

If the car hasn't payed, throw an Error:

"{carNumber} needs to pay before leaving the parking lot."

Otherwise, this function should **remove** the car from the vehicles array and **return**:

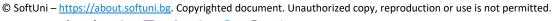
"{carNumber} left the parking lot."

pay(carNumber)

If the car is not found, throw an Error:

"{carNumber} is not in the parking lot."















If the car has already payed, throw an Error:

"{carNumber}'s driver has already payed his ticket."

Otherwise, this function set payed to true on the found car and return:

"{carNumber}'s driver successfully payed for his stay."

getStatistics(carNumber)

This **method** can be called **with one parameter** or **without** any.

If NO parameter is provided, the method should return the full information of the parking lot.

• At the first line:

```
"The Parking Lot has { emptySlots } empty spots left."
```

 On the lines, display information about each vehicle, sorted alphabetically ascending by their carModel:

```
"{carModel} == {carNumber} - {Has payed / Not payed}"
```

If the method is called with **parameter** for **carNumber**:

return only the information about the car with the given carNumber:

```
"{carModel} == {carNumber} - {Has payed / Not payed}"
```

Examples

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Sample code usage
Const parking = new Parking(12);
console.log(parking.addCar("Volvo t600", "TX3691CA"));
console.log(parking.getStatistics());
console.log(parking.pay("TX3691CA"));
console.log(parking.removeCar("TX3691CA"));
                                Corresponding output
The Volvo t600, with a registration number TX3691CA, parked.
The Parking Lot has 11 empty spots left.
Volvo t600 == TX3691CA - Not payed
TX3691CA's driver successfully payed for his stay.
```



TX3691CA left the parking lot.

























