

Problem 3. Parking

Exam problems for the ["JavaScript Advanced" course @ SoftUni](https://judge.softuni.bg/Contests/Compete/Index/2590#2). 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

Sample code usage
<pre>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"));</pre>
Corresponding output
<pre>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.</pre>

