

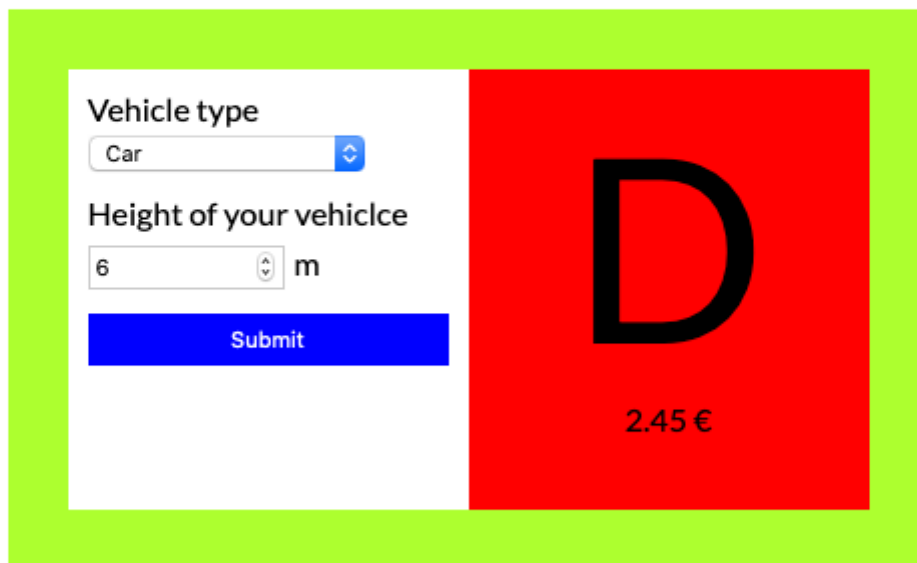
Casustoets

- start: 09.00
- end: 12.00
- tools you are allowed to use: internet, homework assignments and examples from the course. You cannot use social media and you are not allowed to ask any answers or code from your classmates.
- ownership: the code you hand in is written by you.
- To hand in: via learn, hand in a zip-file and a url to your answer in codesandbox.

Casusomschrijving

Which category is for your car

Check your car category for toll roads in France.



The screenshot shows a web form titled "Which category is for your car" with the subtitle "Check your car category for toll roads in France." The form is set against a bright green background. It contains two input fields: "Vehicle type" with a dropdown menu showing "Car" and "Height of your vehicle" with a numeric input showing "6" and a unit "m". A blue "Submit" button is below the inputs. To the right of the form is a large red square containing a large black letter "D" and the text "2.45 €" below it.

Given is the HTML and CSS (see directory start) of the above mentioned image. In this image you can fill in the height and type of the vehicle. Based on this information a vehicle category and toll price is calculated. The price and category are written in the DOM. For more information about the categories see the global variable `carCategories`. When there is no matching category an error message is displayed in the `div` with the id `message`. The error message is a `p` with a class `error` and the following text: Your vehicle is too high for our roads.

The HTML and the CSS is given in the directory 'start'.

```
//global variables
const carCategories = [
  {
    category: 'A',
    minHeight: 0,
    maxHeight: 1.8,
    price: 2.56
  },
  {
    category: 'B',
    minHeight: 1.9,
    maxHeight: 3,
    price: 3.05
  },
  {
    category: 'C',
    minHeight: 3.1,
    maxHeight: 5,
    price: 5.67
  },
  {
    category: 'D',
    minHeight: 5.1,
    maxHeight: 8,
    price: 2.45
  },
];
```

Conditions

1. You may not use jQuery, you can only use native Javascript.
2. The application will only be graded when the values in the input are read and used in the programme, and a message is written to the DOM.

Criteria

Nr	Leeropbrengsten	Punten
1	Is consistent in their naming practice	5
2	Is using let or const in the right circumstances	5
3	Is using an array to store (related) data	5
4	Is using conditionals (if/else)	10
5	Is using a loop in order to avoid repeating the same steps	10
6	Writes a function to structure code	10
7	Writes a function to avoid repetition (code duplication)	5
8	Writes comments according to the AirBnB specification	5

Nr	Leeropbrengsten	Punten
9	Chooses the right operator in the equations	10
10	Uses console.log() for debugging purposes	5
11	Uses higher-level functions (map, filter, reduce)	5
12	Uses types (with TypeScript) when declaring variables (even for return types and parameters)	5
13	Uses a object to store structured data.	5
14	Uses Events for interaction	5
15	Uses DOM methods (interfaces) to create and add HTML elements in the DOM.	5
16	Uses DOM methods (interfaces) to walk through the DOM	5

Grading

Appreciation	Grade	Points
Insufficient	4	< 60
Moderate insufficient	5	60 - 70
Sufficient	6	70 - 80
Almost good	7	80 - 85
good	8	85 - 90
very goed	9	90 - 95
outstanding	10	95 - 100