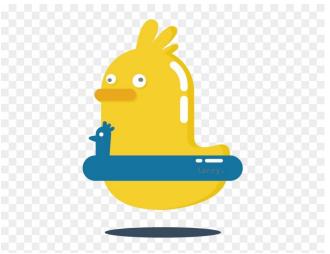
Challenge: Larry Delivery Driver

Larry the duck has taken a career in post deliver service. However Larry, despite being a great driver, is not very good with directions. Your Task is to draw him a Map and show his progess as he delivers his goods.



Instructions

The map of the town will be displayed on a 200 x 200 grid.

There is a list of stops that Larry needs visit along his way. A stop has the following properties:

- **name:** the name of the stop
- **x:** The x-coordinate position of the stop (integer from 0 200)
- y: The y-coordinate position of the stop (integer from 0-200)

The name of the stop will be an uppercase letter character (i.e: "A", "B", "C"...). Larry must visit each stop along the route in ascending order of stop name ($A \rightarrow B \rightarrow C \rightarrow$

D ...). The provided stop names will be in the range A-Z and will not skip letters.

A straight line segment between two stops is referred to as a **leg**. Each leg has properties:

- **startStop:** The name of the starting stop
- **endStop:** The name of the ending stop
- **speedLimit:** The maximum speed limit that the driver can travel on this leg (integer from
- 200 in kilometres per hour)
- **legID:** Identifier for the leg. The legID will be the concatenation of the startStop name and the endStop name. E.g. The legID for startStop="A" and endStop="B" is "AB".

Larry's currrent position is specified by:

- activeLegID: The ID of the leg that Larry is currently driving on
- **legProgress:** Larry's percentage progress (integer from 0 100) along the current leg (line segment).

Your Task is to:

- 1. Add a REST API to retrieve the given list of stops and legs from server.
 - GET /legs
 - GET /stops
- 2. Visualize the stops
- 3. Add a REST API to get the Larry's current position.
 - GET /driver
- 4. Visualize the position of Larry. Visualize and highlight the completed section of the leg where Larry is, as well as completed legs.
- 6. Add a form to change Larry's current position.
 - Active leg must be selected via a dropdown menu
 - Percentage progress must be specified via a textbox
- 7. Add a REST API to update the Larry's current position
 - PUT /driver
- 8. Have the visualizations in #4 and #5 reflect the updates to the driver's current position

Minimal Requirements:

- README.md: clear step-by-step instruction of how to run the app
- FEATURES.md: a list of extra improvements (or bonuses) available on your page for us to test and to make a note
- A fully working page without any bugs
- Clean code implementation and organization
- Attention to detail, good usability of the tool as well as functionality and edge case scenarios
- Good and intuitive documentation which describe step by step of how to build, run and test the app

Initial Data

Driver location

```
{
    "activeLegID": "CD",
    "legProgress": "50"
}
```

Stops

```
"name": "A", "x": 30, "y": 10
"name": "B", "x": 20, "y": 20
"name": "C", "x": 25, "y": 20
"name": "D", "x": 25, "y": 30
"name": "E", "x": 10, "y": 100
"name": "F", "x": 50, "y": 100
"name": "G", "x": 35, "y": 30
},
"name": "H", "x": 35, "y": 20
"name": "I", "x": 40, "y": 20
"name": "J", "x": 30, "y": 10
```

Legs

```
"startStop": "A",
"endStop": "B",
"speedLimit": 100,
"legID": "AB"
"startStop": "B",
"endStop": "C",
"speedLimit": 60,
"legID": "BC"
"startStop": "C",
"endStop": "D",
"speedLimit": 80,
"legID": "CD"
"startStop": "D",
"endStop": "E",
"speedLimit": 80,
"legID": "DE"
"startStop": "E",
"endStop": "F",
"speedLimit": 40,
"legID": "EF"
"startStop": "F",
"endStop": "G",
"speedLimit": 40,
"legID": "FG"
"startStop": "G",
"endStop": "H",
"speedLimit": 100,
"legID": "GH"
"startStop": "H",
"endStop": "I",
"speedLimit": 100,
"legID": "HI"
"startStop": "I",
"endStop": "J",
"speedLimit": 50,
"legID": "IJ"
```