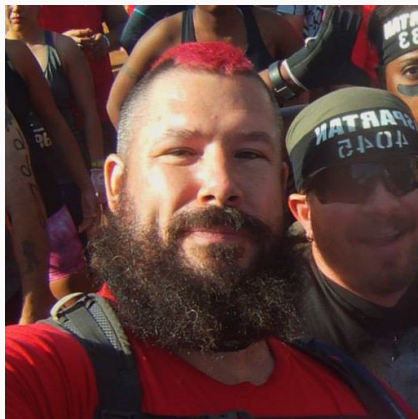






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Quick Activity



Parking lot simulator



- Model a car:
 - Make, year, plate
 - Time spent in the parking lot
- Model a parking lot:
 - Number of spots, cars that are parked there
 - Ability to park a car
 - Ability for a car to leave the lot after its time
 - Ability to get the lot status (who is parked currently?)
- There'll be less spots than cars when you start
- You can only park a car when a spot is open
- 10 parking spots
- 100 cars to park
- **YOU NEED TO BE ABLE TO PROGRAMMATICALLY PARK ALL CARS OVER TIME**

Step 1 - write down the problem

- Model a car
- Model a parking lot
- Park as many cars as there are spots available
- Each parked car should leave the lot after 4-10 seconds
- When a car leaves the lot park another car
- Park cars until all cars have been parked
- Run the program until all cars have left the lot

Model a car

- Car should have the following properties
 - Make, Year, Plate
- Demonstrate creating an instance of a car object

Create a collection of cars to park

- Build a list of instances of car objects

Model a parking lot

- Create a parking lot object
- The lot should have parking spaces
- There should be 10 parking spaces

Park a car in the lot

- You should be able to park one car

Park 10 cars in the lot

- You should be able to park 10 cars in the lot

Car leaves a parking spot

- One car should be able to leave a parking spot after it has parked for a specified amount of time

All cars leave the parking lot

- All cars should be able to leave in their own time

When a spot is available, park a car

- You should be able to park a car as parking spots become available

Model a car

- Car should have the following properties

Use constructor function.

- Make, Year, Plate

- Demonstrate creating an instance of a car object
`var car = new Car(make, year, plate);`

Create a collection of cars to park

- Build a list of instances of car objects

Create an array of cars to be parked.

Use a loop.

Model a parking lot

- Create a parking lot object
Use constructor function.
- The lot should have parking spaces
Could use an array.
Could model a parking space.
- There should be 10 parking spaces
Add 10 parking spaces to the lot.

Park a car in the lot

- You should be able to park one car
Add car to first parking space in the lot.

Park 10 cars in the lot

- You should be able to park 10 cars in the lot
Add a car to each empty space in the lot.

Car leaves a parking spot

- One car should be able to leave a parking spot after it has parked for a specified amount of time
Set a timer when a car is parked.
Remove the car from the space when timer goes off.

All cars leave the parking lot

- All cars should be able to leave in their own time
Timer should work when parking a car.

When a spot is available, park a car

- You should be able to park a car as parking spots become available
Get the next car when a spot becomes empty.

Step 4 - put it all together, test each change frequently

- Build each piece in small chunks of code.
- Test as you go.
- Make sure your changes do what you expect.
- Commit to github.com frequently!