**Tasks**

* **Implement a Vallet Parking class.**

A vallet parking class should work only with classes that are of type Vehicle (reuse Vehicle classes from previous homeworks - feel free to modify/adapt the vehicle classes to the problem).

*ValletParking<Car> carPark = new ValletParking<Car>();*

*Car car = new Golf4();// car has drive and getCurrentAmountOfFuel methods.*

*float amountOfFuelBeforeParking = car.getCurrentAmountOfFuel();*

*ParkingTicket ticket = carPark.parkVehicle(car); // the vallet gives you ticket and drives your car to an empty spot. That could be on the 5th floor of the parking lot.*

*// eat pizza, don't drink alcohol*

*car = carPark.retrieveVehicle(ticket); // the vallet checks your ticket and finds your car according to it, and drives it back to you.*

*float amountOfFuelAfterParking = car.getCurrentAmountOfFuel();*

***Restrictions:***

* *ValletParking<Object> or ValletParking<String> is not allowed.*
* *If Subaru extends Object, but does not implement Vehicle, ValletParking<Subaru> is not allowed.*
* **Write unit tests where you validate all the methods of ValetParking.**

Take into account that while the valet drove your car, the fuel amount decreased.

i.e assert amountOfFuelAfterParking < amountOfFuelBeforeParking;

* **Create parkings with other Vehicle types:**

ValletParking<Helicopter> carPark = new ValletParking<Helicopter>();

ValletParking<Motorcycle> carPark = new ValletParking<Motorcycle>();

...

Or come up with your own Vehicle type (MyPrettyPony).

* **Homework must be uploaded to GitHub**
* **All Commits in** [**Git**](http://platforma.scoalainformala.ro/mod/resource/view.php?id=1774) **MUST have commit messages.**

**Penalties:**

* No unit tests -> homework is not graded
* Code does not compile or crashes -> homework is not graded
* Code is not uploaded to GitHub -> homework is not graded
* No commit messages -> -2p
* Incorrect usage of naming conventions -> -1p
* Code is not formatted -> -1p
* Code is not documented -> -1p