

Train Exercise

The purpose of this exercise is to give us a sense for your level of familiarity with PHP and Object Oriented Programming. Please submit code that meets the following requirements:

A train is made up of a series of train cars.

Using only PHP, without any additional libraries, write two classes; "Train" and "TrainCar".

Must be able to:

- Set the weight of a TrainCar.
- Get the weight of a TrainCar.
- Add TrainCars to the Train, either at the front or back, with a limit of 30 cars.
- Remove a TrainCar from either end, reporting a problem if there are none left to remove.
- Ask the Train how many cars are currently in the Train.
- Get the total weight of the Train.

After writing the classes show an example of how to use them.

The code should not include a GUI and must be executable from the command line.

Bonus: Show the best way to have different types of TrainCars (i.e. cargo, passenger, engine, etc).