Assignment: #AmusementRide Due: 03/24/02019 Points: 6	Assignment	: #AmusementRide	Due: 03/24/02019	Points: 6
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Specification

Copy the program AmusementRide.java to your computer and add your own class that extends class AmusementRide.

Note: AmusementRide.java contains two classes (class FerrisWheel and class RollerCoaster) that provide examples for the class you must create.

Your class must include the following.

- Implementations for all of the abstract methods defined in abstract class AmusementRide.
- At least one static class variable and at least one instance variable that are not defined in abstract class AmusementRide.
- Override the inherited repair() method following the instructions given in the repair() method comment block.
- Override the inherited toString() that returns a String representation of your ride objects. The String must contain the String returned from the inherited toString() method.

The main() method in abstract class AmusementRide must keep the class FerrisWheel and class RollerCoaster objects. The main() method must also keep the following behavior:

```
// pseudo-code...
obj.load()
if (obj.start())
  obj.stop()
obj.repair()
```

However, you must change the *main()* method to use polymorphism. [hint: array]

The first six lines of the program's output must match the following.

```
Ferris wheel "The Billy Preston" has capacity of 50 and costs $6.28 ..height: 100; # of spins: 0 mechanics are on strike Roller coaster "for(;;) Young" has capacity of 32 and costs $3.14 ...maxSpeed: 99; trackLength: 25; whiplashFactor: 1.618 mechanics are on strike
```

Example Output

CSC205 student Edith Foogooman created class BumperCar and she named her ride "Self-driving Bumpers". The output of her program looked as follows.

```
Ferris wheel "The Billy Preston" has capacity of 50 and costs $6.28 ...height: 100; # of spins: 0 mechanics are on strike Roller coaster "for(;;) Young" has capacity of 32 and costs $3.14 ...maxSpeed: 99; trackLength: 25; whiplashFactor: 1.618 mechanics are on strike Bumper cars "Self-driving Bumpers" has capacity of 17 and costs $6.28 ...weight: 13; speed: 8; os: Linux Self-driving Bumpers has been loaded Self-driving Bumpers has started Self-driving Bumpers has stopped Self-driving Bumpers has been repaired
```