using System;

using NUnit.Framework;

namespace RepairShop.Tests

{

public class Tests

{

public class RepairsShopTests

{

private Garage fullGarage;

[SetUp]

public void Init()

{

fullGarage = new Garage("Bobby's", 3);

fullGarage.AddCar(new Car("Opel", 2));

fullGarage.AddCar(new Car("Toyota", 3));

fullGarage.AddCar(new Car("BMW", 3));

}

[Test]

[TestCase("")]

[TestCase(null)]

public void ConstructorShouldThrowExceptionIfNameIsInvalid(string name)

{

Assert.Throws<ArgumentNullException>(() => new Garage(name, 5));

}

[Test]

[TestCase(0)]

[TestCase(-5)]

public void ConstructorShouldThrowExceptionIfMechanicsLessOrEqualTo0(int mechanics)

{

Assert.Throws<ArgumentException>(() => new Garage("Booby's", mechanics));

}

[Test]

public void ConstructorShouldCreateGarageWithValidData()

{

Garage garage = new Garage("Bobby's", 5);

Assert.AreEqual("Bobby's", garage.Name);

Assert.AreEqual(5, garage.MechanicsAvailable);

Assert.AreEqual(0, garage.CarsInGarage);

}

[Test]

public void AddMethodShouldThrowExceptionIfGarageFull()

{

Car car = new Car("KIA", 3);

Assert.Throws<InvalidOperationException>(() => fullGarage.AddCar(car));

}

[Test]

public void FixCarShouldThrowExceptionIfCarNotInGarage()

{

Assert.Throws<InvalidOperationException>(() => fullGarage.FixCar("Honda"));

}

[Test]

public void FixCarShouldFixTheCar()

{

Garage garage = new Garage("Bill's", 3);

Car car = new Car("Opel", 3);

garage.AddCar(car);

garage.FixCar("Opel");

Assert.AreEqual(0, car.NumberOfIssues);

}

[Test]

public void RemoveFixedCarsShouldReduceCarsCount()

{

fullGarage.FixCar("Opel");

fullGarage.FixCar("Toyota");

fullGarage.RemoveFixedCar();

Assert.AreEqual(1, fullGarage.CarsInGarage);

}

[Test]

public void RemoveFixedCarsShouldThrowExceptionIfNoFixedCars()

{

Assert.Throws<InvalidOperationException>(() => fullGarage.RemoveFixedCar());

}

[Test]

public void ReportMethodShodReturnInformationAboutCarsThatAreNotFixed()

{

fullGarage.FixCar("Toyota");

string report = fullGarage.Report();

Assert.AreEqual("There are 2 which are not fixed: Opel, BMW.", report);

}

}

}

}