

You have been hired by a company that builds a car dealership management system. Your task is to implement a class called **Car** that represents a car in the system.

The **Car** class should have the following instance variables:

- **make**: a String that represents the make of the car
- **model**: a String that represents the model of the car
- **year**: an integer that represents the year the car was manufactured
- **price**: a double that represents the price of the car

The **Car** class should have the following methods:

- **getMake()**: a method that returns the make of the car.
- **getModel()**: a method that returns the model of the car.
- **getYear()**: a method that returns the year the car was manufactured.
- **getPrice()**: a method that returns the price of the car.
- **setMake(String make)**: a method that sets the make of the car to the given value.
- **setModel(String model)**: a method that sets the model of the car to the given value.
- **setYear(int year)**: a method that sets the year the car was manufactured to the given value.
- **setPrice(double price)**: a method that sets the price of the car to the given value.
- **toString()**: a method that returns a string representation of the car in the following format: "make, model, year, price".

In addition to the **Car** class, you should also implement a class called **CarDealership** that represents a car dealership. The **CarDealership** class should have the following instance variables:

- **cars**: an array of **Car** objects that represents the cars in the dealership.

The **CarDealership** class should have the following methods:

- **addCar(Car car)**: a method that adds a **Car** object to the **cars** array.
- **getCar(int index)**: a method that returns the **Car** object at the specified index in the **cars** array.
- **getInventoryValue()**: a method that returns the total value of all the cars in the dealership.
- **getAveragePrice()**: a method that returns the average price of the cars in the dealership.
- **getNewestCar()**: a method that returns the newest **Car** object in the dealership.
- **getOldestCar()**: a method that returns the oldest **Car** object in the dealership.

You should write unit tests for both the **Car** and **CarDealership** classes to ensure that they are working correctly. Your tests should cover all the methods in both classes and should include edge cases and error conditions.