Class UsedCarLot

java.lang.Object
    UsedCarLot

```
public class UsedCarLot
extends Object
```

This class represents an array of Car objects

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Constructor Summary

Constructors

Constructor	Description
`UsedCarLot()`	Instantiates a UsedCarLot object and initializes the inventory to an empty ArrayList

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method	Description
void	`addCar(int i, Car c)`	Adds a Car object at index a specified index i of inventory.
void	`addCar(Car c)`	Adds a Car object to the inventory.
`ArrayList <Car>`	`getInventory()`	Returns the ArrayList of Car objects.
void	`moveCar(int indexOfCarToMove, int destinationIndex)`	Removes the Car object at index indexOfCarToMove.
Car	`sellCarNoShift (int indexOfCarToSell)`	Replaces the Car at index indexOfCarToSell with null.
Car	`sellCarShift (int indexOfCarToSell)`	Removes the Car at index indexOfCarToSell.
boolean	`swap(int f, int s)`	It swaps two objects of index f and s.

Methods inherited from class java.lang.Object

clone , equals , finalize , getClass , hashCode , notify , notifyAll , toString , wait , wait , wait

Constructor Details

UsedCarLot

```
public UsedCarLot()
```

Instantiates a UsedCarLot object and initializes the inventory to an empty ArrayList

Method Details

getInventory

```
public ArrayList <Car> getInventory()
```

Returns the ArrayList of Car objects.

Returns:

The ArrayList of Car objects

addCar

```
public void addCar(int i,
                   Car c)
```

Adds a Car object at index a specified index i of inventory. This method increases the size of inventory by 1.

PRECONDITION: 0 <= i <= inventory.size()

Parameters:

`c` - The Car object

`i` - The index of the Arraylist

addCar

```
public void addCar(Car c)
```

Adds a Car object to the inventory. This method increases the size of inventory by 1

Parameters:

`c` - The Car object

swap

```
public boolean swap(int f,
                    int s)
```

It swaps two objects of index f and s. Returns true if the swap was successful or false if the swap was unsuccessful.

Parameters:

`f` - Index of first object

`s` - Index of second object

Returns:

True or false

sellCarShift

```
public Car sellCarShift(int indexOfCarToSell)
```

Removes the Car at index indexOfCarToSell. Returns the Car object that was removed when sold. This method decreases the size of inventory by 1.

PRECONDITION: indexOfCarToSell < inventory.size()

Parameters:

`indexOfCarToSell` - Index of the Car object

Returns:

The Car object removed when sold

sellCarNoShift

```
public Car sellCarNoShift(int indexOfCarToSell)
```

Replaces the Car at index indexOfCarToSell with null. Returns the Car object that was replaced when sold. This method does not change the size of inventory.

PRECONDITION: indexOfCarToSell < inventory.size()

Parameters:

`indexOfCarToSell` - Index of the Car object

Returns:

The Car object replaced when sold

moveCar

```
public void moveCar(int indexOfCarToMove,
                    int destinationIndex)
```

Removes the Car object at index indexOfCarToMove. Adds the removed Car object at index destinationIndex.

PRECONDITION: indexOfCarToSell < inventory.size() destinationIndex < inventory.size()

Parameters:

`indexOfCarToMove` - Index of the Car object

`destinationIndex` - Index of where the Car object will be added