Class UsedCarLot

java.lang.Object UsedCarLot

public class UsedCarLot
extends Object

This class represents a UsedCarLot object

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Constructor Summary

Constructors

Constructor Description

UsedCarLot() Instantiates a UsedCarLot object

Method Summary

All Methods In	nstance Methods Concrete Methods	
Modifier and Type	Method	Description
void	<pre>addCar(int indexToAdd, Car carToAdd)</pre>	Adds a Car to the inventory list at the index specified by indexToAdd
void	addCar(Car addCar)	Adds the given Car object to the inventory
ArrayList <car></car>	<pre>getInventory()</pre>	Returns the inventory of Car objects
void	<pre>moveCar(int indexOfCarToMove, int destinationIndex)</pre>	Moves Car located at index indexOfCarToMove to index destinationIndex
Car	<pre>sellCarNoShift (int indexOfCarToSell)</pre>	"sells" the Car located at indexOfCarToSell, REPLACES the Car at indexOfCarToSell with NULL
Car	<pre>sellCarShift (int indexOfCarToSell)</pre>	"sells" the Car located at indexOfCarToSell which removes it from the inventory list
hoolean	swan(int indice1 int indice2)	Returns true if the swan of the Car

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objects at the corresponding indices was successful; returns false otherwise

Methods inherited from class java.lang.Object

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

Constructor Details

UsedCarLot

public UsedCarLot()

Instantiates a UsedCarLot object

Method Details

getInventory

public ArrayList <Car> getInventory()

Returns the inventory of Car objects

Returns:

The inventory of Car objects

addCar

public void addCar(Car addCar)

Adds the given Car object to the inventory

Parameters:

addCar - The new Car object

swap

Returns true if the swap of the Car objects at the corresponding indices was successful; returns false otherwise

Parameters:

indice1 - The index of the first car to swap

indice2 - The index of the second car to swap

Returns:

true or false depending on whether or not the swap was successful

addCar

Adds a Car to the inventory list at the index specified by indexToAdd

PRECONDITION: o <= indexToAdd < inventory.size()

Parameters:

indexToAdd - The desired index for the Car object to be added at

carToAdd - The Car object to be added

sellCarShift

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

"sells" the Car located at indexOfCarToSell which removes it from the inventory list

Removes it from the inventory list and shifts the remaining Cars in the inventory to the left to fill the gap and reduces the size of inventory by 1

PRECONDITION: indexOfCarToSell < inventory.size()

Parameters:

indexOfCarToSell - The index of the Car object to be removed from the inventory

Returns:

The Car object that was removed from the inventory

sellCarNoShift

public Car sellCarNoShift(int indexOfCarToSell)

"sells" the Car located at indexOfCarToSell, REPLACES the Car at indexOfCarToSell with NULL

Creates an "empty parking spot" on the lot and maintains the size of the inventory

PRECONDITION: indexOfCarToSell < inventory.size()

Parameters:

indexOfCarToSell - The index of the Car object to be sold and replaced will NULL

Returns:

The Car object modified to NULL from the inventory

moveCar

Moves Car located at index indexOfCarToMove to index destinationIndex

If destinationIndex > indexOfCarToMove, moves the Car to right in inventory

If destinationIndex < indexOfCarToMove, moves the Cars to the left in the inventory All other cars in the inventory shift accordingly

PRECONDITIONS: indexOfCarToMove < inventory.size()

destinationIndex < inventory.size()</pre>

Parameters:

indexOfCarToMove - The index of the Car object that will be moved

destinationIndex - The destination index at which the Car object will be moved to