

Class UsedCarLot

java.lang.Object
UsedCarLot

```
public class UsedCarLot
extends Object
```

This is a used car Class

Author:
Robbie Galpern-Levin

Constructor Summary

Constructors	
Constructor	Description
UsedCarLot()	Initiates a UsedCarLot object

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method	Description
void	addCar(int indexToAdd, Car carToAdd)	Adds a new car to the lot's inventory at a specific index
void	addCar(Car carToAdd)	Adds a car to the lot's inventory
ArrayList <Car>	getInventory()	Returns the current inventory
void	moveCar(int indexOfCarToMove, int destinationIndex)	Moves a car at one index to a new specified index
Car	sellCarNoShift(int indexOfCarToSell)	Removes one sold car from the lot's inventory
Car	sellCarShift(int indexOfCarToSell)	Removes one sold car from the lot's inventory and shifts other card to fill the space
boolean	swap(int index1, int index2)	Swaps two cars in the lot's inventory

Methods inherited from class java.lang.Object

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

Constructor Details

UsedCarLot

```
public UsedCarLot()
```

Initiates a UsedCarLot object

Method Details

getInventory

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

Returns the current inventory

Returns:

The inventory of the lot

addCar

```
public void addCar(Car carToAdd)
```

Adds a car to the lot's inventory

Parameters:

carToAdd - the car being added

swap

```
public boolean swap(int index1,  
                    int index2)
```

Swaps two cars in the lot's inventory

Parameters:

index1 - the first car being swapped

index2 - the second car being swapped

Returns:

true or false based on whether the swap is successful

addCar

```
public void addCar(int indexToAdd,  
                  Car carToAdd)
```

Adds a new car to the lot's inventory at a specific index

PRECONDITION: $0 \leq \text{indexToAdd} < \text{inventory.size()}$

Parameters:

indexToAdd - the index where the car will be added

carToAdd - the car being added

sellCarShift

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

Removes one sold car from the lot's inventory and shifts other card to fill the space

PRECONDITION: $\text{indexOfCarToSell} < \text{inventory.size()}$

Parameters:

indexOfCarToSell - index of the car being sold

Returns:

the sold car

sellCarNoShift

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

Removes one sold car from the lot's inventory

PRECONDITION: $\text{indexOfCarToSell} < \text{inventory.size()}$

Parameters:

indexOfCarToSell - index of the car being sold

Returns:

the sold car

moveCar

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

Moves a car at one index to a new specified index

PRECONDITIONS: indexOfCarToMove < inventory.size() destinationIndex < inventory.size()

Parameters:

indexOfCarToMove - current index of the car being moved

destinationIndex - index the car will move to