PACKAGE CLASS TREE DEPRECATED INDEX HELP

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

# Class Vehicle

java.lang.Object
    Vehicle

**All Implemented Interfaces:**

`java.lang.Comparable<Vehicle>`

---

```
public abstract class Vehicle
extends java.lang.Object
implements java.lang.Comparable<Vehicle>
```

This class represents a vehicle.

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## *Field Summary*

**Fields**

| Modifier and Type | Field and Description |
|---|---|
| `private java.lang.String` | **`code`**<br>The vehicle's code. |
| `private int` | **`mileage`**<br>The vehicle's mileage in km. |

## *Constructor Summary*

**Constructors**

| Constructor and Description |
|---|
| `Vehicle(java.lang.String code, int mileage)`<br>Constructs a vehicle with a specific code and mileage. |

## *Method Summary*

**All Methods** Instance Methods Abstract Methods Concrete Methods

| Modifier and Type | Method and Description |
|---|---|
| `abstract double` | `calculatePrice()`<br>Calculates the cost of the vehicle. |
| `int` | `compareTo(Vehicle other)`<br>Sorts vehicle alphabetically by type in the order cars, trucks, vans, and each type is then sorted by the calculated price in ascending order (lowest to highest price). |
| `java.lang.String` | `getCode()`<br>Returns the vehicle's code. |
| `int` | `getMileage()`<br>Returns the current mileage of the vehicle. |
| `void` | `testDrive(int distance)`<br>Increases the mileage by the distance the vehicle was driven in the test drive (in km). |
| `java.lang.String` | `toString()`<br>Returns a formatted textual string containing information about the vehicle including code, mileage, and calculated price. |

### Methods inherited from class java.lang.Object

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

## *Field Detail*

### code

```
private java.lang.String code
```

The vehicle's code.

### mileage

```
private int mileage
```

The vehicle's mileage in km.

## *Constructor Detail*

### Vehicle

```
public Vehicle(java.lang.String code,
               int mileage)
```

Constructs a vehicle with a specific code and mileage.

**Parameters:**

`code - the code of the vehicle.`

`mileage - the mileage of the vehicle.`

## *Method Detail*

### getCode

```
public java.lang.String getCode()
```

Returns the vehicle's code.

**Returns:**

`returns the vehicle's code.`

### getMileage

```
public int getMileage()
```

Returns the current mileage of the vehicle.

**Returns:**

`returns the current mileage of the vehicle.`

### testDrive

```
public void testDrive(int distance)
```

Increases the mileage by the distance the vehicle was driven in the test drive (in km).

**Parameters:**

`distance - the distance of the test drive in km.`

### compareTo

```
public int compareTo(Vehicle other)
```

Sorts vehicle alphabetically by type in the order cars, trucks, vans, and each type is then sorted by the calculated price in ascending order (lowest to highest price).

**Specified by:**

`compareTo in interface java.lang.Comparable<Vehicle>`

**Parameters:**

`other - the vehicle being compared to this vehicle.`

**Returns:**

`the result of the comparison.`

### calculatePrice

```
public abstract double calculatePrice()
```

Calculates the cost of the vehicle.

**Returns:**

`the calcuated cost of the vehicle.`

### toString

```
public java.lang.String toString()
```

Returns a formatted textual string containing information about the vehicle including code, mileage, and calculated price.

**Overrides:**

`toString in class java.lang.Object`

**Returns:**

`textual string containing the code, mileage, and cost of the vehicle.`

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