

Class TrainCar

```
java.lang.Object
  TrainCar
```

All Implemented Interfaces:

```
java.lang.Comparable<TrainCar>
```

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

This class represents a train car.

Field Summary

Fields

Modifier and Type	Field and Description
private java.lang.String	code The train car's code.
private int	inspectionYr The train car's year of last inspection.

Constructor Summary

Constructors

Constructor and Description
TrainCar (java.lang.String code, int inspectionYr) Constructs a train car with a specific code and inspection year.

Method Summary

All Methods	Instance Methods	Abstract Methods	Concrete Methods
Modifier and Type	Method and Description		
abstract double	calculateIncome()		

Calculates the income of the train car.

int	compareTo(TrainCar other) Sorts train car alphabetically by type in alphabetical order F, P, T, and each type is then sorted by the calculated income in ascending order (lowest to highest income).
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java.lang.String	getCode() Returns the train car's code.
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int	getInspectionYr() Returns the inspection year of the train car.
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java.lang.String	toString() Returns a formatted textual string containing information about the train car including code, inspection year, and calculated income.
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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 train car's code.

inspectionYr

```
private int inspectionYr
```

The train car's year of last inspection.

Constructor Detail

TrainCar

```
public TrainCar(java.lang.String code,  
                int inspectionYr)
```

Constructs a train car with a specific code and inspection year.

Parameters:

code - the code of the train car.

inspectionYr - the inspection year of the train car.

Method Detail

getCode

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

Returns the train car's code.

Returns:

returns the train car's code.

getInspectionYr

```
public int getInspectionYr()
```

Returns the inspection year of the train car.

Returns:

returns the inspection year of the train car.

compareTo

```
public int compareTo(TrainCar other)
```

Sorts train car alphabetically by type in alphabetical order F, P, T, and each type is then sorted by the calculated income in ascending order (lowest to highest income).

Specified by:

compareTo in interface [java.lang.Comparable<TrainCar>](#)

Parameters:

other - the train car being compared to this train car.

Returns:

the result of the comparison.

calculateIncome

```
public abstract double calculateIncome()
```

Calculates the income of the train car.

Returns:

the calculated income of the train car.

toString

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

Returns a formatted textual string containing information about the train car including code, inspection year, and calculated income.

Overrides:

toString in class java.lang.Object

Returns:

textual string containing the code, inspection year, and income of the train car.

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