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

Model

# Class Square

java.lang.Object Model.Square

public class Square
extends java.lang.Object

Square Class stores information of the Pieces and Coordinates

Version:

1.0

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# Field Summary

#### **Fields**

Modifier and Type Field and Description

private Piece gamePiece

The Piece that is occupying the square object

private Coordinate position

The Coordinates of the square object

# **Constructor Summary**

### **Constructors**

# **Constructor and Description**

Square(Coordinate newCoordinates)

Square Constructor with specific coordinate

Square(Coordinate newCoordinates, Piece newPiece)

Square Constructor with specific coordinate and game piece

# **Method Summary**

All Methods Instan	ce Methods Concrete Methods
Modifier and Type	Method and Description
void	addPiece(Piece newPiece) Adds a new piece to the specific square object when necessary, and if the square is not empty/occupied it will replace the existing game piece.
void	deletePiece() Removes a piece from the square position.
boolean	<pre>equals(java.lang.Object input) The Equality of two objects is checked by comparing the object by the field values</pre>
int	<pre>getColumnNumber() Getter method for the column number of the coordinate position</pre>
Coordinate	<pre>getCoordinate()</pre> Getter method for the coordinate position
Piece	<pre>getPiece()</pre> Getter method for the game piece on the square
int	<pre>getRowNumber()</pre> Getter method for the row number of the coordinate position
boolean	<pre>isOccupied() Method checks if the square is empty or being occupied by an existing game piece</pre>
void	setPiece(Piece piece) Setter method for the game piece
void	setPosition(Coordinate newCoordinate) Setter method for the position of the square with user specified coordinate value
java.lang.String	toString() Method used to print the information of the square object in STRING format

# Methods inherited from class java.lang.Object

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

# Field Detail

# position

private Coordinate position

The Coordinates of the square object

# gamePiece

private Piece gamePiece

The Piece that is occupying the square object

## **Constructor Detail**

# **Square**

public Square(Coordinate newCoordinates)

Square Constructor with specific coordinate

### Parameters:

newCoordinates, - user specified position

## **Square**

Square Constructor with specific coordinate and game piece

### Parameters:

newCoordinates, - user specified position
newPiece, - user specified game object

# **Method Detail**

# getColumnNumber

public int getColumnNumber()

Getter method for the column number of the coordinate position

### Returns:

Column Number of the position

## getRowNumber

```
public int getRowNumber()
```

Getter method for the row number of the coordinate position

#### Returns:

Row Number of the coordinate position

#### setPosition

public void setPosition(Coordinate newCoordinate)

Setter method for the position of the square with user specified coordinate value

### Parameters:

newCoordinate, - The user specified coordinate of the square

### getCoordinate

public Coordinate getCoordinate()

Getter method for the coordinate position

#### Returns:

Position, The position coordinate of the square

# getPiece

public Piece getPiece()

Getter method for the game piece on the square

#### Returns:

Piece, the piece located on the square position

#### setPiece

public void setPiece(Piece piece)

Setter method for the game piece

# Parameters:

piece, - user specified game piece object

# addPiece

public void addPiece(Piece newPiece)

Adds a new piece to the specific square object when necessary, and if the square is not empty/occupied it will replace the existing game piece.

#### Parameters:

newPiece, - user specified game piece object that is to be added

## deletePiece

public void deletePiece()

Removes a piece from the square position.

## **isOccupied**

public boolean isOccupied()

Method checks if the square is empty or being occupied by an existing game piece

#### Returns:

True, only if the square is occupied. False, if there is no game piece located

## toString

public java.lang.String toString()

Method used to print the information of the square object in STRING format

### Overrides:

toString in class java.lang.Object

### Returns:

String, a String which contains the coordinates of the specific square along with the piece that occupies that current square location

## equals

public boolean equals(java.lang.Object input)

The Equality of two objects is checked by comparing the object by the field values

#### Overrides:

equals in class java.lang.Object

#### Returns:

True, If the two objects are same

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