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ALL CLASSES

SEARCH: Search

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

Package 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

Author:

Muneeb Nasir

Field Summary

Fields

Modifier and Type	Field	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	Description
<pre>Square(Coordinate newCoordinates)</pre>	Square Constructor with specific coordinate
<pre>Square(Coordinate newCoordinates, Piece newPiece)</pre>	Square Constructor with specific coordinate and game piece

Method Summary

All Methods Instance Methods Concrete Methods

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

Search

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

Square	copy()	Used for a deep-copy in order to allow for proper undo/redo
void	<pre>deletePiece()</pre>	Removes a piece from the square position.
boolean	<pre>equals (java.lang.Object input)</pre>	The Equality of two objects is checked by comparing the object by the field values
int	<pre>getColumnNumber()</pre>	Getter method for the column number of the coordinate position
Coordinate	<pre>getCoordinate()</pre>	Getter method for the coordinate position
Piece	<pre>getPiece()</pre>	Getter method for the game piece on the square
int	getRowNumber()	Getter method for the row number of the coordinate position
boolean	<pre>isOccupied()</pre>	Method checks if the square is empty or being occupied by an existing game piece
boolean	<pre>isPlant()</pre>	The Method is used to check the current piece type of Game piece: PLANT
boolean	isShooter()	The Method is used to check the current piece type of Game piece: PLANT SHOOTER
boolean	isSunflower()	The Method is used to check the current piece type of Game piece: PLANT SUNFLOWER
boolean	<pre>isZombie()</pre>	The Method is used to check the current piece type Game piece: ZOMBIE
void	<pre>setPiece(Piece piece)</pre>	Setter method for the game piece
void	<pre>setPosition (Coordinate newCoordinate)</pre>	Setter method for the position of the square with user specified coordinate value
java.lang.Stri	ng 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

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

Search

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

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

public Square(Coordinate newCoordinates, Piece newPiece)

Square Constructor with specific coordinate and game piece

Parameters:

newCoordinates -, user specified position

newPiece -, user specified game object

Method Detail

getColumnNumber

public int getColumnNumber()

FRAMES NO FRAMES

ALL CLASSES

Search

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

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)

FRAMES NO FRAMES

ALL CLASSES

Search

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

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

FRAMES NO FRAMES

ALL CLASSES

Search

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

Returns:

True, If the two objects are same

isZombie

public boolean isZombie()

The Method is used to check the current piece type Game piece: ZOMBIE

Returns:

True, if the current piece located is a Zombie else false

isPlant

public boolean isPlant()

The Method is used to check the current piece type of Game piece: PLANT

Returns:

True, if the current piece located is a PLANT else false

isShooter

public boolean isShooter()

The Method is used to check the current piece type of Game piece: PLANT SHOOTER

Returns:

True, if the current piece located is a PLANT SHOOTER else false

isSunflower

public boolean isSunflower()

The Method is used to check the current piece type of Game piece: PLANT SUNFLOWER

Returns:

True, if the current piece located is a PLANT SUNFLOWER else false

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

Search

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

κeτurns:

Deep copy of the square

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

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