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

# **Class Coordinate**

java.lang.Object Coordinate

public class Coordinate
extends java.lang.Object

The Coordinate class is used to identify the rows and columns of the game.

Version:

1.0

Author:

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# Field Summary

#### **Fields**

Modifier and Type Field and Description

private int column

The Column value of the coordinate

private int row

The Row value of the coordinate

# **Constructor Summary**

#### **Constructors**

### **Constructor and Description**

Coordinate(int column, int row)

Constructor that takes in the int values of the rows and columns of the coordinates The constructor checks if the values of column and row are within bounds, if the values are not within bounds, exception displayed when the row and column values not within the specific constraints

Coordinate(java.lang.String coordinate)

Constructor that takes in the row and column values in a STRING FORMAT of the coordinate.

# **Method Summary**

All Methods Instance Methods Concrete Methods

Modifier and Type Method and Description

int getColumnNumber()

Getter method to retrieve the row number of the coordinate

int getRowNumber()

Getter method to retrieve the column number of the coordinate

java.lang.String toString()

Method used to displayed the coordinate row and column information in

STRING format

# Methods inherited from class java.lang.Object

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

### Field Detail

### column

private int column

The Column value of the coordinate

## row

private int row

The Row value of the coordinate

# Constructor Detail

#### Coordinate

throws java.lang.IndexOutOfBoundsException

Constructor that takes in the int values of the rows and columns of the coordinates The constructor checks if the values of column and row are within bounds, if the values are not within bounds, exception displayed when the row and column values not within the specific constraints

#### Parameters:

column, - user specified column number for the coordinate

row, - user specified row number for the coordinate

#### Throws:

java.lang.IndexOutOfBoundsException - when the row and column values not within the specific board constraints

#### Coordinate

Constructor that takes in the row and column values in a STRING FORMAT of the coordinate. The constructors checks if the values of column and row in String are within bounds. It also checks if it is a valid entry for the rows and column. Exception displayed when invalid entry i.e. not the right String format or correct input format Exception displayed when the row and column values not within the specific constraints

#### Parameters:

coordinate, - The String form of the row and column

#### Throws:

java.lang.IllegalArgumentException - when the row and column values not in correct String format

java.lang.IndexOutOfBoundsException - when the row and column values not within the specific constraints

### Method Detail

### getColumnNumber

public int getColumnNumber()

Getter method to retrieve the row number of the coordinate

## Returns:

Row, The row number of the coordinate

## getRowNumber

public int getRowNumber()

Getter method to retrieve the column number of the coordinate

#### Returns:

Column, The column number of the coordinate

# toString

public java.lang.String toString()

Method used to displayed the coordinate row and column information in STRING format

Overrides:

toString in class java.lang.Object

Returns:

String, a String which contains the row and column information of the coordinates.

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