SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD SEARCH: Q Search

Description

Concrete Methods

Cell represents a single tile of a maze. STUDENT WILL NEED TO COMPLETE THIS CLASS AS INDICATED BELOW

Construct a cell that has all four walls by default, and which is given a String

Cell constructor with explicit wall parameters, and which is given a String value

Check if two cells are the same in a grid, based on

Return the String data stored in this cell.

Return whether this cell's east wall exists.

Return whether this cell's north wall exists.

Return whether this cell's south wall exists.

Return whether this cell's west wall exists.

Use a "bit" string in NESW (north-east-south-west)

Get a "bit string" representation of this cell's walls, in

order to represent and set the walls of this cell.

Set the String contents of this cell.

NESW (north-east-south-west) order.

Get the cell number in the grid.

Check if an Object is same as this cell, based on number

value that matches the uniquely- assigned number of the Cell.

that matches the uniquely- assigned number of the Cell.

Description

number only.

only.

Class Cell java.lang.Object

public class Cell

Constructors

Constructor

Cell()

extends java.lang.Object

Constructor Summary

Cell(boolean n, boolean s,

java.lang.String getData()

java.lang.String setData

java.lang.String toString()

Constructor Details

public Cell()

number of the Cell.

number of the Cell.

Method Details

setWalls

Parameters:

toString

Overrides:

Returns:

hasNorth

Returns:

hasEast

Returns:

hasSouth

Returns:

hasWest

Returns:

getData

Returns:

setData

Parameters:

Returns:

getNumber

Returns:

equals

Parameters:

Returns:

equals

Overrides:

Parameters:

Returns:

PACKAGE

the number

the data value

walls - the bit string to parse

Parameters:

public Cell(boolean n,

boolean s,

boolean e,

boolean w)

n - true if north side of the cell should have a wall

s - true if south side of the cell should have a wall

w - true if west side of the cell should have a wall

e - true if east side of the cell should have a wall

public void setWalls(java.lang.String walls)

characters in it beyond the first four will be ignored.

public java.lang.String toString()

toString in class java.lang.Object

the 4-character "bit string"

public boolean hasNorth()

Return whether this cell's north wall exists.

true if and only if the north wall exists

public boolean hasEast()

Return whether this cell's east wall exists.

true if and only if the east wall exists

public boolean hasSouth()

Return whether this cell's south wall exists.

true if and only if the south wall exists

public boolean hasWest()

Return whether this cell's west wall exists.

public java.lang.String getData()

public java.lang.String setData(java.lang.String contents)

Return the String data stored in this cell.

Set the String contents of this cell.

contents - the cell's new data

public int getNumber()

Get the cell number in the grid.

public boolean equals(Cell other)

other - the other cell to compare to this

equals in class java.lang.Object

other - the other cell to compare to this

true if same, false otherwise

SUMMARY: NESTED | FIELD | CONSTR | METHOD

CLASS

true if same, false otherwise

Check if two cells are the same in a grid, based on number only.

public boolean equals(java.lang.Object other)

METHOD IS COMPLETE; STUDENT SHOULD NOT MODIFY IT.

TREE DEPRECATED INDEX HELP

Check if an Object is same as this cell, based on number only. If the Object is not a cell, then return false. THIS

DETAIL: FIELD | CONSTR | METHOD

the original contents

true if and only if the west wall exists

Instance Methods

Method

equals

getNumber()

hasEast()

hasNorth()

hasSouth()

hasWest()

setWalls

Methods inherited from class java.lang.Object

equals(Cell other)

(java.lang.Object other)

(java.lang.String contents)

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

Construct a cell that has all four walls by default, and which is given a String value that matches the uniquely- assigned

Cell constructor with explicit wall parameters, and which is given a String value that matches the uniquely- assigned

Use a "bit" string in NESW (north-east-south-west) order to represent and set the walls of this cell. A 1 bit indicates

Get a "bit string" representation of this cell's walls, in NESW (north-east-south-west) order. A 1 represents that a wall

exists, and a o represents no wall. For example, "1001" is returned when only the north and west walls exist for a cell.

that the wall exists, a o (or anything else) means no wall. The given string is assumed to have length at least 4; any

(java.lang.String walls)

boolean e, boolean w)

Method Summary

All Methods

boolean

boolean

int

boolean

boolean

boolean

boolean

void

Cell

Cell

Modifier and Type

Cell

CLASS

PACKAGE

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TREE DEPRECATED INDEX HELP