PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

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

Class GameBoard

java.lang.Object GameBoard

public class GameBoard
extends java.lang.Object

Version:

1.4

Author:

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Field Summary

Fields

Modifier and Type Field and Description

private Square[][] board

Dual-array gameboard to be played on.

private java.lang.String logging

Logging every event happening during the game.

private int moneyPouch

User's money pouch during the game.

private int zombieLimit

The amount of zombies to be spawned within the board.

Constructor Summary

Constructors

Constructor and Description

GameBoard()

Will generate a brand new board with initial values.

Method Summary

All Methods Instar	nce Methods Concrete Methods
Modifier and Type	Method and Description
boolean	add(Coordinate coordinate, Piece piece) Adding pieces around the generated gameBoard.
void	<pre>addingZombie() Adding zombies randomly at the end of the board.</pre>
void	<pre>gameOver() Will end the game, if any zombies have reached at the end of the gameboard.</pre>
void	<pre>gameWon() Once all the zombies have been spawned, it will go through all the squares in the board; To see if any zombies are "alive".</pre>
private Square	getSquare(Coordinate c) Receiving the square at specific coordinate, as the square contains both the coordinate and piece.
void	hitUpdate() When piece is within range of attack, it will affect the other piece's health.
void	<pre>move(Coordinate src, Coordinate dest) This method is to move a piece from one coordinate to another.</pre>
void	<pre>movingZombie() Used for the zombies to move one square forward after every round.</pre>
boolean	<pre>purchasePiece(Piece piece)</pre> To see if the user is able to purchase a new piece.
void	<pre>removeUpdate() It will remove pieces when health is equal to zero and below.</pre>
void	reset() Will re-initialize the gameboard, where no piece has spawned.
void	<pre>sunflowerMoney() Whenever there is a sunflower spawned in the game, it will add money into the user's money pouch.</pre>
java.lang.String	toString()

Methods inherited from class java.lang.Object

 ${\it clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait}$

board

private Square[][] board

Dual-array gameboard to be played on.

moneyPouch

private int moneyPouch

User's money pouch during the game.

zombieLimit

private int zombieLimit

The amount of zombies to be spawned within the board.

logging

private java.lang.String logging

Logging every event happening during the game.

Constructor Detail

GameBoard

public GameBoard()

Will generate a brand new board with initial values. Board will consist of a dual array of squares, and each square would contain a specific coordinate and piece when added and or removed. Logging is to keep track of every event happening. Money pouch is the amount of money the player will have. ZombieLimit is the amount of zombies allowed to be spawned into the board.

Method Detail

add

Adding pieces around the generated gameBoard. Will use the addPiece() and removePiece() methods, when necessary.

Parameters:

coordinate - receiving the coordinate at which the piece will be placed piece - receiving the type of piece to be added at specific coordinate

Returns:

Whether if it is possible to add the piece within conditions

move

This method is to move a piece from one coordinate to another. It will receive the current and new coordinate; in those coordinates, the method will retrieve the piece and move them.

Parameters:

src - the current coordinate in the piece is currently placed

dest - the potential new coordinate where the piece will be move to

hitUpdate

public void hitUpdate()

When piece is within range of attack, it will affect the other piece's health.

addingZombie

public void addingZombie()

Adding zombies randomly at the end of the board.

movingZombie

public void movingZombie()

Used for the zombies to move one square forward after every round.

removeUpdate

public void removeUpdate()

It will remove pieces when health is equal to zero and below.

sunflowerMoney

public void sunflowerMoney()

Whenever there is a sunflower spawned in the game, it will add money into the user's money pouch.

purchasePiece

public boolean purchasePiece(Piece piece)

To see if the user is able to purchase a new piece.

Parameters:

piece - The piece wanting to purchase.

Returns:

The ability to purchase a piece.

reset

public void reset()

Will re-initialize the gameboard, where no piece has spawned.

gameWon

public void gameWon()

Once all the zombies have been spawned, it will go through all the squares in the board; To see if any zombies are "alive". If there are zombies still alive then the game keeps going. If all are killed, then the game ends.

gameOver

public void gameOver()

Will end the game, if any zombies have reached at the end of the gameboard.

getSquare

private Square getSquare(Coordinate c)

Receiving the square at specific coordinate, as the square contains both the coordinate and piece.

Parameters:

c - Coordinate of the square needed

Returns:

The square at specific coordinate

toString

public java.lang.String toString()

Overrides:

toString in class java.lang.Object

Returns:

String implementation of the gameboard. Also, containing logs and money pouch.

PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

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