Package board

Class Summary

Brewery

Class Brewery extends Ownable

Chance

Class Chance extends Square

<u>Jail</u>

Class Jail extends Square

Ownable

Abstract class Ownable, extended from Square.

Parking

Class Parking extends Square

Shipping

Class Shipping extends Ownable

Square

Abstract class Square, superclass to all Squares.

Start

Class Start extends Square

Street

Class Street extends Ownable

Tax

board

Class Brewery

< Constructors > < Methods >

Class Brewery extends Ownable

Author:

Mathias Tvaermose Gleerup, s153120

Constructors

Brewery

Methods

getRent

board

Class Chance

```
< Constructors > < Methods >
```

public class **Chance** extends <u>Square</u>

Class Chance extends Square

Author:

Jonas Larsen s136335

Author:

Sofie Freja Christensen s153932

Author:

Morten Velin Christensen s147300

Constructors

Chance

```
public Chance(java.lang.String name, int id, AllCards allTheCards)

Constructor

Parameters:

name - of this instance
id - [1:40]
allTheCards - of the game
```

Methods

landOnSquare

```
public void landOnSquare(Player player)
```

Overrides:

landOnSquare in class Square

board

Class Jail

```
java.lang.Object
|
+--<u>Square</u>
|
+--board.Jail
```

< Constructors > < Methods >

public class **Jail** extends <u>Square</u>

Class Jail extends Square

Author:

Simon Lundorf s154008

Author:

Emily Skovgaard Rasmussen s153374

Constructors

Jail

Methods

landOnSquare

```
public void landOnSquare(Player player)
```

Overrides:

landOnSquare in class Square

board

Class Ownable

Direct Known Subclasses:

Brewery, Shipping, Street

```
< Constructors > < Methods >
```

public abstract class **Ownable** extends <u>Square</u>

Abstract class Ownable, extended from Square. Superclass to all ownable subclasses of Square.

Author:

Mathias Tvaermose Gleerup, s153120

Constructors

Ownable

Methods

clearOwner

```
public void clearOwner()

Sets owner to null.
```

getPawn

```
public int getPawn()

Returns:
    pawn amount.
```

getPrice

```
public int getPrice()

Returns:
    price of this instance
```

getPropertyPawnStatus

public boolean getPropertyPawnStatus()

Returns:

boolean value of the pawn status.

getRent

```
public abstract int getRent()
```

Method for getting the rent of the instance this method is called upon.

Returns:

rent

getType

```
public char getType()
```

Returns:

the type of this instance.

landOnSquare

public void landOnSquare(Player player)

Overrides:

landOnSquare in class Square

liftPawn

```
public void liftPawn()
```

Sets pawn status to false and withdraws an amount to the owners Account.

pawnProperty

```
public void pawnProperty()
```

Sets pawn status to true and deposits the pawn price to the owners Account.

board

Class Parking

```
< Constructors > < Methods >
```

public class **Parking** extends <u>Square</u>

Class Parking extends Square

Author:

Sofie Freja Christensen s153932

Constructors

Parking

Methods

landOnSquare

```
public void landOnSquare(Player player)

When landing on a Parking square, a message is printet.

Parameters:

player - who landed on this square

Overrides:

landOnSquare in class Square
```

board

Class Shipping

```
< Constructors > < Methods >
```

public class **Shipping** extends <u>Ownable</u>

Class Shipping extends Ownable

Author:

Mathias Tvaermose Gleerup, s153120

Constructors

Shipping

Methods

getRent

```
public int getRent()

Overrides:
    getRent in class Ownable
```

board

Class Square

Direct Known Subclasses:

Chance, Jail, Ownable, Parking, Start, Tax

```
< Constructors > < Methods >
```

public abstract class **Square** extends java.lang.Object

Abstract class Square, superclass to all Squares.

Author:

Mathias Tvaermose Gleerup

Constructors

Square

Methods

getID

```
public int getID()

Returns the id (int) of this instance.

Returns:
    id [1:40]
```

landOnSquare

public abstract void landOnSquare(Player player)

Method which determines what happens to a player when he lands on this instance.

Parameters:

player - landed

toString

```
public java.lang.String toString()
```

Returns the name of this instance

Returns:

name

Overrides:

toString in class java.lang.Object

board

Class Start

```
java.lang.Object
|
+--<u>Square</u>
|
+--board.Start
```

< Constructors > < Methods >

public class **Start** extends <u>Square</u>

Class Start extends Square

Author:

Simon Lundorf s154008

Author:

Emily Skovgaard Rasmussen s153374

Start

Methods

landOnSquare

public void landOnSquare(Player player)

Overrides:

landOnSquare in class Square

board

Class Street

< Constructors > < Methods >

public class **Street** extends <u>Ownable</u>

Class Street extends Ownable

Author:

Mathias Tvaermose Gleerup, s153120

Author:

Simon Lundorf s154008

Street

```
public Street(java.lang.String name,
                  int id,
                  int price,
                  int pawn,
                  int priceOfBuilding,
                  int rent0,
                  int rent1,
                  int rent2,
                  int rent3,
                  int rent4,
                  int rentHotel,
                  char type)
      Constructor
       Parameters:
             name - of this instance
             id - [1:40]
             price - of this instance
             pawn - price
             priceOfBuilding - price of a building
             rent0 - base
             rent1 - house1
             rent2 - house2
             rent3 - house3
             rent4 - house4
             rentHotel - hotel
```

Methods

buyBuildings

```
public void buyBuildings(int amount)

Method for buying an amount buildings on a Street

Parameters:

amount - of buildings
```

getNumberOfBuildings

type - [A:H]

```
public int getNumberOfBuildings()
```

Returns:

Number of buildings of this instance

getPriceOfBuilding

public int getPriceOfBuilding()

Returns:

The cost of building a building

getRent

```
public int getRent()
```

Overrides:

getRent in class Ownable

removeBuildings

public void removeBuildings(int amount)

Method for removing an amount of buildings on this instance.

Parameters:

amount - to be removed

board

Class Tax

```
java.lang.Object
|
+--<u>Square</u>
|
+--board.Tax
```

< Constructors > < Methods >

public class **Tax** extends <u>Square</u>

Author:

Sofie Freja Christensen s153932

Author:

Mathias Tvaermose Gleerup, s153120

Author:

Simon Lundorf s154008

Author:

Emily Skovgaard Rasmussen s153374

Constructors

Tax

Methods

getTaxAmount

```
public int getTaxAmount()

Method for getting taxAmount.

Returns:
    taxAmount
```

landOnSquare

Overrides:

```
public void landOnSquare(Player player)
```

landOnSquare in class Square

Package cards

Class Summary

Card

Abstract class Card, superclass to all Cards.

Change Position

Class ChangePosition extends Move

Expense

Class Expense extends Transaction

GoToJail

Class GoToJail extends Move

Grant

Class Grant extends Transaction

IncomeIncrease

Class IncomeIncrease extends Transaction

Move

Abstract class for Card subclasses which changes the position of the player.

MoveToSquare

Class for moving a Player to a specific Square

MovetoShip

Class for cards which moves a player to nearest Shipping square

Pardon

Class which awards the Player with a 'get out of jail for free card'.

PlayerTransaction

PriceIncrease

Class for card which charges the Player with a fee for houses and hotels.

Transaction

abstract, amount

cards

Class Card

Direct Known Subclasses:

Move, MovetoShip, Pardon, Transaction

```
< Constructors > < Methods >
```

public abstract class **Card** extends java.lang.Object

Abstract class Card, superclass to all Cards.

Author:

Sofie Freja Christensen s153932

Constructors

Card

```
public Card(java.lang.String description)
```

Super constructor which takes a String name as a parameter.

Parameters:

description - of the card

Methods

toString

```
public java.lang.String toString()
```

Returns the name of the Card

Returns:

description

Overrides:

toString in class java.lang.Object

useCard

public abstract void useCard(Player player)

Method which determines what happens to a player when the specific card is picked.

Parameters:

player - to use the card

cards

Class ChangePosition

< Constructors > < Methods >

public class **ChangePosition** extends <u>Move</u>

Class ChangePosition extends Move

Author:

Sofie Freja Christensen s153932

Constructors

ChangePosition

Constructor

Parameters:

```
description - of the card.
moveTo - the position the player shall be moved by.
board - of the game
```

Methods

useCard

public void useCard(Player player)

Overrides:

useCard in class Card

cards

Class Expense

< Constructors > < Methods >

public class **Expense** extends <u>Transaction</u>

Class Expense extends Transaction

Author:

Sofie Freja Christesen s153932

Constructors

Expense

Constructor which accepts two parameters name and withdrawal for this specific instance.

Parameters:

description - of the card money - to be withdrawed

Methods

payMoney

public int payMoney()

Method for retrieving the withdrawal amount.

Returns:

reward

useCard

```
public void useCard(Player player)
```

Player pays the expense, and balance is updated.

Parameters:

player - to use the card

Overrides:

useCard in class Card

cards

Class GoToJail

< Constructors > < Methods >

public class **GoToJail** extends <u>Move</u>

Class GoToJail extends Move

Author:

Simon Lundorf s154008

Author:

Emily Skovgaard Rasmussen s153374

GoToJail

public GoToJail(java.lang.String description)

Constructor for GoToJail card.

Parameters:

description - of the card

Methods

useCard

public void useCard(Player player)

Overrides:

useCard in class Card

cards

Class Grant

< Constructors > < Methods >

public class **Grant** extends <u>Transaction</u>

Class Grant extends Transaction

Author:

Sofie Freja Christensen s153932

Grant

Constructor for Grant card

Parameters:

description - of the card. money - to be granted

Methods

useCard

public void useCard(Player player)

Overrides:

useCard in class Card

cards

Class IncomeIncrease

< Constructors > < Methods >

public class **IncomeIncrease** extends <u>Transaction</u>

Class IncomeIncrease extends Transaction

Author:

Sofie Freja Christensen s153932

IncomeIncrease

Methods

getMoney

```
public int getMoney()

Returns:
    pay amount
```

useCard

```
public void useCard(Player player)

Player receives award, and balance is updated.

Parameters:
    player - to use the card

Overrides:
    useCard in class Card
```

cards

Class Move

Direct Known Subclasses:

ChangePosition, GoToJail, MoveToSquare

```
< Constructors >
```

extends Card

Abstract class for Card subclasses which changes the position of the player.

Author:

Sofie Freja Christensen s153932

Constructors

Move

Constructor

Parameters:

description - of the cards moveTo - a number

cards

Class MoveToSquare

< Constructors > < Methods >

public class **MoveToSquare** extends <u>Move</u>

Class for moving a Player to a specific Square

Author:

Sofie Freja Christensen s153932

MoveToSquare

Constructor for MoveToSquare

Parameters:

description - of the card moveTo - the square ID the player should move to board - in the game

Methods

useCard

public void useCard(Player player)

Overrides:

useCard in class Card

cards

Class MovetoShip

< Constructors > < Methods >

public class **MovetoShip** extends <u>Card</u>

Class for cards which moves a player to nearest Shipping square

Author:

Simon Lundorf s154008

Author:

Emily Skovgaard Rasmussen s153374

MovetoShip

Constructor for MoveToShip card

Parameters:

description - oif the card board - of the game

Methods

useCard

public void useCard(Player player)

Overrides:

useCard in class Card

cards

Class Pardon

```
java.lang.Object
|
+--<u>Card</u>
|
+--cards.Pardon
```

< Constructors > < Methods >

public class **Pardon** extends <u>Card</u>

Class which awards the Player with a 'get out of jail for free card'.

Author:

Simon Lundorf s154008

Author:

Emily Skovgaard Rasmussen s153374

Pardon

public Pardon(java.lang.String description)

Constructor for PrisonBreak card

Parameters:

description - of the card

Methods

useCard

public void useCard(Player player)

Overrides:

useCard in class Card

cards

Class PlayerTransaction

< Constructors > < Methods >

public class **PlayerTransaction** extends <u>Transaction</u>

Author:

Simon Lundorf s154008

Author:

Emily Skovgaard Rasmussen s153374

PlayerTransaction

Constructor for MobilePay Card

Parameters:

description - of the card money - to be payed playerList - a list of the players

Methods

useCard

public void useCard(Player player)

Overrides:

useCard in class Card

cards

Class PriceIncrease

< Constructors > < Methods >

public class **PriceIncrease** extends <u>Transaction</u>

Class for card which charges the Player with a fee for houses and hotels.

Author:

Simon Lundorf s154008

Author:

Emily Skovgaard Rasmussen s153374

PriceIncrease

Constructor for a PriceIncrease card

Parameters:

description - of the card houseTax - increase hotelTax - increase

Methods

useCard

public void useCard(Player player)

Overrides:

useCard in class Card

cards

Class Transaction

Direct Known Subclasses:

Expense, Grant, IncomeIncrease, PlayerTransaction, PriceIncrease

< Constructors >

public abstract class **Transaction** extends Card

abstract. amount

Author:

Sofie Freja Christensen s153932

Transaction

Constructor for a Transaction card

Parameters:

description - of the card money - to be transferred

Package controller

Class Summary

GUIControl

Controller class which handles all contact with the GUI.

GameLogic

StartGame

msqL

controller

Class GUIControl

```
< Constructors > < Methods >
```

public class **GUIControl** extends java.lang.Object

Controller class which handles all contact with the GUI.

Author:

mathi

Constructors

GUIControl

```
public GUIControl()
```

Methods

changeLanguage

public java.lang.String changeLanguage()

Method for choosing language of the messages.

Returns:

language chosen

createPlayer

```
public void createPlayer(Player newPlayer)
```

Creates a player on the board.

Parameters:

newPlayer - to enter

displayChanceCard

```
public static void displayChanceCard(java.lang.String txt)
```

Displays a text in the chanceCard field in the middle.

Parameters:

txt - of the chance card

endGUI

```
public void endGUI()
```

Closes the GUI.

getBuyChoice

Player choice of buying the square he landed on.

Parameters:

field - the player landed on player - in question

Returns:

boolean

getTaxChoice

Player chooses which way he wants to pay taxes.

Parameters:

name - of the Tax field. player - to get choice

Returns:

boolean

getUserInputTurn

Parameters:

thePlayer - in question choices - in String[]

Returns:

input

make2Buttons

Makes two buttons and returns a string representation of what was pressed.

Parameters:

message - to be printed button1 - text button2 - text

Returns:

button pressed

make3Buttons

Makes three buttons and returns a string representation of what was pressed.

Parameters:

message - to be printed button1 - text button2 - text button3 - text

Returns:

button pressed

makeBoard

```
public void makeBoard()
```

Makes the visual board.

makeLists

Makes a list for the player to choose from.

Parameters:

message - to be printed options - to choose from

Returns:

selection String

moveVehicle

```
public static void moveVehicle(Player thePlayer)
```

Moves vehicle on the board

Parameters:

thePlayer - type: Player

numberOfPlayers

```
public java.lang.String[] numberOfPlayers()
```

Getting a string array with the names of the players.

Returns:

playerNames String[]

printMessage

```
public static void printMessage(java.lang.String message)
```

Prints message in GUI

Parameters:

message - type: String

removeBuilding

Removes a number of houses from a street.

Parameters:

position - of the Street numberOfBuildings - to be removed

removePlayer

```
public void removePlayer(Player thePlayer)
```

Removing player from playing board when player surrenders or looses.

Parameters:

thePlayer - to be removed

setBuilding

Sets a number of buildings on the specified square.

Parameters:

```
position - of the Street numberOfBuildings - to be set
```

setOwned

Marks a square as owned buy a player.

Parameters:

squareNumber - of the Ownable thePlayer - to own

showDice

```
public void showDice(Cup newCup)
```

Visual representation of the dices.

Parameters:

newCup - reference

showWinner

```
public void showWinner(Player winner)
```

Shows the winner in the GUI

Parameters:

winner - to be announced

updateBalance

```
public static void updateBalance(Player player)
```

Updates the balance of the player in the GUI

Parameters:

player - in question

controller

Class GameLogic

< Fields > < Constructors >

public class **GameLogic** extends java.lang.Object

Fields

thePlayers

public java.util.ArrayList thePlayers

Constructors

GameLogic

public GameLogic()

GameLogic controls the gameflow

controller

Class StartGame

< Constructors > < Methods >

public class **StartGame** extends java.lang.Object

StartGame

```
public StartGame()
```

Methods

main

```
public static void main(java.lang.String[] args)
```

controller

Class msgL

< Constructors > < Methods >

public class **msgL** extends java.lang.Object

Constructors

msgL

```
public msgL()
```

Methods

changeLanguage

```
public static void changeLanguage(java.lang.String language)
```

Changes the language of the strings msg() returns

Parameters:

language - chosen

msg

```
public static java.lang.String msg(int index)

Getter for the String arrays with messages.

Parameters:
    index - of message

Returns:
    string
```

Package entities

Class Summary

Account

Class for creating an Account, which keeps track of a players balance.

AllCards

Class for holding all Cards

Assets

Class which keeps track of a Player's assets (Squares, buildings and jailCards).

Board

Keeps track of all the squares, in an array.

Cup

Class Cup, for operating two Die at once.

Dice

Class Dice, for getting random value between 1 and 6.

Player

Vehicle

Class which keeps track of the player's position on the board and creates a piece that the player moves with

entities

Class Account

< Constructors > < Methods >

public class **Account** extends java.lang.Object

Class for creating an Account, which keeps track of a players balance.

Author:

Simon Lundorf s154008

Constructors

Account

```
public Account()
```

Constructor the initializes the player's account with a balance of 0

Methods

deposit

```
public void deposit(int value)
```

Method for depositing money into a player's account

Parameters:

value - of money

getBalance

```
public int getBalance()
```

Method for checking the amount on a player's account balance

Returns:

The amount of money on an account, of the type integer

withdraw

```
public void withdraw(int value)
```

Method for withdrawing money from a player's account

Parameters:

value - of money

entities

Class AllCards

```
< Constructors > < Methods >
```

extends java.lang.Object

Class for holding all Cards

Author:

Sofie Freja Christensen s153932

Constructors

AllCards

```
public AllCards(java.util.ArrayList thePlayers,

Board theBoard)

Creating an AllCards instance

Parameters:

thePlayers - of the game
theBoard - of the game
```

Methods

getCard

```
public <u>Card</u> getCard(int index)
```

Method which takes an int as a parameter and returns that index from the 'theCards' array of this instance

Parameters:

index - [0:43]

Returns:

Card

shuffle

```
public void shuffle()
```

Shuffles the cards

entities

Class Assets

< Constructors > < Methods >

public class **Assets** extends java.lang.Object

Class which keeps track of a Player's assets (Squares, buildings and jailCards).

Author:

Simon Lundorf s154008

Constructors

Assets

```
public Assets(Player player)
Constructor for Assets
Parameters:
    player - owner of this asset
```

Methods

buyBuildings

Method for buying an amount of buildings on a specific Street.

Parameters:

```
street - in question amount - of buildings
```

buySquare

```
public void buySquare(Ownable square)
```

Method for adding a bought square to list of squares a player owns

Parameters:

square - bought

getBuildStatus

```
public boolean getBuildStatus()
```

Method for returning a boolean value of whether the player can build a house.

Returns:

boolean

getBuildableList

```
public java.lang.String[] getBuildableList()
```

Method for getting a String array of streets which there can be built buildings on.

Returns:

String[]

getBuilding

```
public boolean getBuilding()
```

Method for returning a boolean value of whether the player owns a building.

Returns:

boolean hasBuilding

getHotelList

```
public java.lang.String[] getHotelList()
```

Method for getting an array of the names of properties with hotels built on them

Returns:

String[]

getHouseList

```
public java.lang.String[] getHouseList()
```

Method for getting an array of the names of properties with houses built on them

Returns:

String[]

getJailCard

```
public boolean getJailCard()
```

Method for checking if the player has a get out of jail free card

Returns:

Boolean value true or false depending on whether or not the player has a card

getOwned

```
public java.util.ArrayList getOwned()
```

Method for getting an ArrayList of owned squares

Returns:

ArrayList of Ownables

getOwnedID

```
public int[] getOwnedID()
```

Method for determining the square IDs of the squares a player owns

Returns:

An integer array with the square IDs

getOwnedStreet

```
public java.util.ArrayList getOwnedStreet()
```

Returns:

ArrayList Street of the owned streets.

getPawnStatus

public boolean getPawnStatus()

Returns:

pawnstatus

getPawnable

```
public java.lang.String[] getPawnable()
```

Returns:

list of pawnable squares.

getPawned

```
public java.lang.String[] getPawned()
```

Returns:

list of the pawned squares.

getProperty

```
public boolean getProperty()
```

Method for returning a boolean value of whether the player owns a a property.

Returns:

boolean hasProperty

getPropertyList

```
public java.util.ArrayList getPropertyList()
```

Returns:

property String ArrayList

getSellableList

```
public java.lang.String[] getSellableList()
```

Returns:

list of sellable squares.

hasPawned

```
public boolean hasPawned()
```

Returns:

boolean value of whether Assets contain a pawned square.

liftPawn

```
public void liftPawn(Ownable)
```

Unpawns a square.

Parameters:

ownable - in question

pawnProperty

```
public void pawnProperty(Ownable ownable)
```

Sets the pawnstatus to true of this square

Parameters:

ownable - in question

removeBuildings

Method for removing an amount of houses from a specific Street.

Parameters:

```
street - in question amount - of buildings
```

setJailCard

```
public void setJailCard()
```

Method for adding a get out of jail free card to the player

useJailCard

```
public void useJailCard()
```

Method for removing a get out of jail free card after it is used by the player

entities

Class Board

```
< Constructors > < Methods >
```

public class **Board** extends java.lang.Object

Keeps track of all the squares, in an array.

Author:

Jonas Larsen s136335

Author:

Sofie Freja Christensen s153932

Constructors

Board

Constructor for a Board

Parameters:

```
theCup - of the game
thePlayers - of the game
testMode - value of test mode
```

Methods

getSquare

```
public <u>Square</u> getSquare(int index)
```

Method for returning a square from the array in this instance.

Parameters:

index - message

Returns:

Square

entities

Class Cup

Direct Known Subclasses:

FakeCup

< Constructors > < Methods >

public class **Cup** extends java.lang.Object

Class Cup, for operating two Die at once.

Author:

Mathias TvÃlrmose Gleerup

Constructors

Cup

public Cup()

Methods

getD1

```
public int getD1()
```

Method for getting the value of dice 1.

Returns:

value of dice 1.

getD2

```
public int getD2()
```

Method for getting the value of dice 2.

Returns:

value of dice 2.

getEquals

```
public boolean getEquals()
```

Method for identifying if the two die show the same value.

Returns:

true if the two dices shows the same eyes.

getSum

```
public int getSum()
```

Method for getting the result of the roll.

Returns:

sum of the two dices.

roll

```
public int roll()
```

Method for rolling the dices

Returns:

sum of the two dices

entities

Class Dice

< Constructors > < Methods >

public class **Dice** extends java.lang.Object

Class Dice, for getting random value between 1 and 6.

Author:

Mathias Tværmose Gleerup

Constructors

Dice

```
public Dice()
```

Dice

```
public Dice(int eyes)
```

Methods

getValue

```
public int getValue()
```

Method for getting the current value of the dice.

Returns:

value of the dice.

roll

```
public int roll()
```

Method for rolling the die.

Returns:

value of dice (from 1 to eyes).

entities

Class Player

```
< Constructors > < Methods >
```

public class **Player** extends java.lang.Object

Author:

Simon Lundorf s154008

Constructors

Player

Constructor for a Player, that initiates the player with an account balance, a vehicle, a jail status and a jail counter

Parameters:

name - String with the player name balance - Int with the player's starting balance

Methods

addToJailCounter

```
public void addToJailCounter()
```

Method for adding to this players jailCounter.

buyBuildings

Method for buying houses on a Street.

Parameters:

street - in question amount - of houses

buySquare

```
public void buySquare(Ownable square)
```

Method for buying an Ownable Square.

Parameters:

square - in question

deposit

```
public void deposit(int amount)
```

Method for depositing an amount from the player account

Parameters:

amount - of money

getBalance

```
public int getBalance()
```

Method for getting the current account balance of a player

Returns:

Account balance of the type integer

getBuildStatus

```
public boolean getBuildStatus()
```

Method for getting a boolean value of whether the player can build houses

Returns:

boolean of has a building.

getBuildableList

```
public java.lang.String[] getBuildableList()
```

Returns a string array of streets which can be built on.

Returns:

String[] buildable squares

getBuilding

```
public boolean getBuilding()
```

Returns a boolean value of whether the player owns a building

Returns:

boolean

getColor

```
public java.awt.Color getColor()
```

Method for generating a color used by the

Returns:

A color of the type Color

getCurrentPosition

```
public int getCurrentPosition()
```

Method for getting the current position of the player's vehicle

Returns:

Player position of the type integer

getFirstRound

```
public boolean getFirstRound()
```

Returns:

a boolean value of whether this is the players first round.

getHotelList

```
public java.lang.String[] getHotelList()
```

Method for getting a list of the properties with hotels built on them.

Returns:

String []

getHouseList

```
public java.lang.String[] getHouseList()
```

Method for getting a list of the properties with houses built on them.

Returns:

String[]

getJailCard

```
public boolean getJailCard()
```

Method that returns whether or not the player has a get out of jail free card

Returns:

Boolean value true or false depending on whether the player has a card

getJailCounter

```
public int getJailCounter()
```

getter method for the players jailCounter.

Returns:

jailCounter

getJailStatus

```
public boolean getJailStatus()
```

Method for checking the jail status of a player

Returns:

Boolean value true or false depending on the jail status of the player

getOwned

```
public java.util.ArrayList getOwned()
```

Method for returning and ArrayList of the squares this player owns.

Returns:

ArrayList of ownables

getOwnedID

```
public int[] getOwnedID()
```

Method for getting an integer array of the ID of the Ownable Squares this player owns.

Returns:

array of integers containing the ID of owned squares.

getOwnedStreet

```
public java.util.ArrayList getOwnedStreet()
```

Returns:

ArrayList of the streets, this player owns.

getPawnStatus

```
public boolean getPawnStatus()
```

Returns:

boolean value of whether the player can pawn something.

getPawnable

```
public java.lang.String[] getPawnable()
```

Returns:

string array of pawnable squares

getPawned

public java.lang.String[] getPawned()

Returns:

String[] of pawned properties.

getPreviousPosition

```
public int getPreviousPosition()
```

Method for getting the previous position of the player's vehicle

Returns:

Previous player position of the type integer

getProperty

public boolean getProperty()

Returns:

Returns a boolean value of whether the player owns a property or not.

getPropertyList

```
public java.util.ArrayList getPropertyList()
```

Returns a list of the names of the properties owned by this player.

Returns:

String ArrayList

getSellableList

```
public java.lang.String[] getSellableList()
```

Returns:

string array of sellable squares.

hasPawned

public boolean hasPawned()

Returns:

boolean value of whether the player has a pawned square.

liftPawn

```
public void liftPawn(Ownable ownable)
```

Lifts the pawn of the property.

Parameters:

ownable - square

moveVehicle

```
public void moveVehicle(int roll)
```

Method for calculating where the player's vehicle lands after rolling the dice

Parameters:

roll - value of the cup

pawnProperty

```
public void pawnProperty(Ownable ownable)
```

Pawns a property.

Parameters:

ownable - square

removeBuildings

Method for removing houses on a Street

Parameters:

```
street - in question amount - of houses
```

resetJailCounter

```
public void resetJailCounter()
```

Method for resetting this players jailCounter.

setFirstRound

```
public void setFirstRound(boolean b)
```

Setting the value of firstRound

Parameters:

b - value of firstRound

setJailCard

```
public void setJailCard()
```

Method for receiving a get out of jail free card

setJailStatus

```
public void setJailStatus(boolean jailStatus)
```

Method for setting the jail status of a player

Parameters:

jailStatus - of the player

setPosition

Method for setting the position of the player's vehicle

Parameters:

```
currentPosition - Type: int previousPosition - Type: int
```

toString

```
public java.lang.String toString()
```

Method for returning the name of the player

Returns:

Player name of the type string

Overrides:

toString in class java.lang.Object

useJailCard

```
public void useJailCard()
```

Method for using a get out of jail free card

withdraw

```
public void withdraw(int amount)
```

Method for withdrawing an amount from the player account

Parameters:

amount - of money

entities

Class Vehicle

< Constructors > < Methods >

public class **Vehicle** extends java.lang.Object

Class which keeps track of the player's position on the board and creates a piece that the player moves with

Author:

Simon Lundorf s154008

Constructors

Vehicle

```
public Vehicle()
```

Constructor that initializes a vehicle with a counter and a color for a player

Methods

getColor

```
public java.awt.Color getColor()
```

Method for returning the color of the player's vehicle

Returns:

Color of the type Color

getCurrentPosition

```
public int getCurrentPosition()
```

Method for getting the current position of a player's vehicle

Returns:

The current position of the player vehicle, of the type integer

getPreviousPosition

```
public int getPreviousPosition()
```

Method for getting the previous position of a player's vehicle

Returns:

The previous position of the player vehicle, of the type integer

move

```
public int move(int value)
```

Method for calculating and returning the new position of a player's vehicle while also saving the previous position

Parameters:

value - of movement

Returns:

currentPosition

setPosition

Method for setting a new position of the player's vehicle

Parameters:

currentPosition - [0-39] previousPosition - [0-39]

Package test

Class Summary

Buildable

FakeCup

TestBonus

TestFakeCup

test

Class Buildable

< Constructors > < Methods >

public class **Buildable** extends java.lang.Object

Constructors

Buildable

public Buildable()

Methods

test

public void test()

test

Class FakeCup

```
< Constructors > < Methods >
```

public class **FakeCup** extends <u>Cup</u>

Constructors

FakeCup

```
public FakeCup(int testCaseNumber)
```

Methods

getD1

```
public int getD1()

Method for getting the value of dice 1.

Returns:

value of dice 1.

Overrides:

getD1 in class Cup
```

getD2

```
public int getD2()

Method for getting the value of dice 2.

Returns:
    value of dice 2.

Overrides:
    getD2 in class Cup
```

getEquals

```
public boolean getEquals()
```

Method for identifying if the two die show the same value.

Returns:

true if the two dices shows the same eyes.

Overrides:

getEquals in class Cup

getSum

```
public int getSum()
```

Method for getting the result of the roll.

Returns:

sum of the two dices.

Overrides:

getSum in class Cup

roll

```
public int roll()
```

Overrides:

roll in class Cup

test

Class TestBonus

< Constructors > < Methods >

public class **TestBonus** extends java.lang.Object

Constructors

TestBonus

public TestBonus()

Methods

test

public void test()

test

Class TestFakeCup

< Constructors > < Methods >

public class **TestFakeCup** extends java.lang.Object

Constructors

TestFakeCup

public TestFakeCup()

Methods

test

public void test()