RoboRally Classes

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Does not contain all methods and variables. Some are repetitive for same type.

Game
Grid grid
HashSet <player> players</player>
ArrayList <flag> flags</flag>
HashMap <flag, player=""> flags_have_player</flag,>
CardDealer dealer;
ArrayList <archivemarker> archiveMarkers</archivemarker>
boolean gameOver
HashMap <player, list<card="">> givenProgramCards</player,>
HashMap <player, arraylist<card="">> chosenProgramCards;</player,>

Direction
Enum: NORTH, EAST, SOUTH, WEST
Direction rotateRight()
Direction rotate180()
Direction rotateLeft()

Grid(int width, int height)
int width
int height
ArrayList <arraylist<hashset<gridobject>>> grid</arraylist<hashset<gridobject>
boolean containsRobot(Position)
Flag getFlatAtPosition(Position)
boolean positionHasFlag(Position)
boolean checkInBounds(Position)
Hash Set < Grid Object > get Grid Objects From Position (Position)
void addGridObject(GridObject)
void moveGridObjectToNewPosition(GridObject, Position)
boolean robotCanMoveToPosition(Robot, Position)
void removeGridObject(GridObject)
void moveRobot(Robot, Direction)
$Position\ getNewPositionFromDirection (GridObject,\ Direction) \\$
boolean positionHasHole(Position), positionHasFlag(Position)

Hole extends GridObject

Player
playerState
ownerLocation
PlayerGraphic P_graphic
programCards
Robot
giveProgramCards(List <card>)</card>
getProgramCards()
setLocal()
setAI()
setExternal()
playerWon()
isDead()
hasWon()
killPlayer()
getRobot()

Command	LineTool
RRApplica	tion rr_app
GameCom	imandLine gcl
STRING op	tions for multiple input
	FIONS for multiple input s - used for getValidInput
getValidIn	put(int)
command	LineMainMenu()
newGame	Menu()
conjector	unh Aonu ()

GameRunner
map
multiple 'layers'
Game game
inputActive
setGameTexture()
giveMapDataToGrid()
setUpGame(Map, int)

GameCommandLine
int CARD_AMOUNT
getValidInput(int)

printLocalEnd(boolean)

getLocalCardSequenceInput(List<Card>)

RRApplication
inputHolder InputHolder
grunner GameRunner
clt CommandLineTool
setUpLibgdxApplication()
getGameRunner()
setUpGame()
getMap()
get

GridObject	
Position pos;	
Direction orientation;	
Position getPosition()	
void setPosition(Position	on)
Direction getOrientation	n()
Void setOrientation(Di	rection)

Robot, Flag, Hole, ArchiveMarker extend GridObject

Robot
extends GridObject
HashSet <flag> flags</flag>
boolean isDead
boolean hasWon
int healthPoints
void setHasWon(boolean)
boolean hasWon()
int getHealth()
void setHealth(int)
void changeHealth(int)
void setIsDead(boolean)
boolean isDead()

Fla	g
ex	tends GridObject
loc	ation og orientation
int	id
int	getId()
vo	id setId()

ArchiveMarker
extends GridObject
int id
getID()

CardDealer
Stack<Card> deck
ArrayList<Card> usedCards

Stack<Card> getDeck()
ArrayList<Card> getUsedCards()
Card deal()
void shuffleDeck()
void cardUsed(Card)
List<Card> dealCards(int amount)

CardD	eck
Stack<	Card> deck
shuffle	2()
getNe	xtCard()
size()	
addRo	tationCards(deck)
addMo	oveCards(deck)
genera	atePriority(int lowerbound, int upperbound)

Ca	ardAction(ENUM)
FC	DRWARD
BA	ACKWARD
ΤL	JRN_RIGHT
ΤL	JRN_LEFT
ΤL	JRN_AROUND
ge	tActionName(CardAction action)

Card
int priority;
int getPriority()

CardDeck, StepCard, TurnCard extends Card

CardDeck	
Stack <card> deck</card>	

StepCard	
int steps	

TurnCard	
String turnDirection	

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CardDeck	StepCard	TurnCard
Stack <card> deck</card>	int steps	String turnDirection
Stack <card> getDeck()</card>	int getSteps()	String getTurnDirection()
int generatePriority(int, int, int)		