String) : String

## Protocol Client Server RasendeFrame <<interface>> - ipServer : InetAdress - game : Game socket : DatagramSocket - manager : PlayerManager + encodePacket(msg : String, ip : InetAddress, port : int) : DatagramPacket + buildFrame (controller : controller) - username : String socket : DatagramSocket + decodePacket(packet : DatagramPacket) : String[] + buildJMenu(controller : controller) - controller : Controller - hand : boolean + encodeConnect(username : String) : String - buildColumn(controller : controller) - round : int bestProposition : int + encodeBoardPiece(bp : BoardPiece) : String + refresh(g : Game) bestProposition : int Controller) - run : boolean + decodeBoardPiece(msg : String[]) : BoardPiece + println(s : String) - hand : boolean - controller : Controller + encodeGoalCard(Stack<Box> goal, Box currentGoal) : String - count : Countdown - run : boolean + decodeGoalCard(msg : String[]) : Stack<Box> + displayHelp() - clientThread : Thread - startCount : boolean + encodeTime(count : Countdown) : String - buttonValidate : boolean + displayWin() + decodeTime(msg : String[]) : int - listen() - username : String + encodeProposition(username : String , nb : int) : String - process(data : String) - count : Countdown + displayLicense() + encodeHand(bool : boolean) : String + connect() - serverThread : Thread + decodeHand(msg : String[]) : boolean + stopClient() + encodeClient(players : List<Player>) : String + processData(data : String[]) + stopServer() + decodeClient(msg : String[] ) : String + sendMove(newRound : int) - listen() + encodeMove(r : Robot, round : int) : String + sendPropositionfromPlayer(username : process(data : String) + encodeAskNextProposition(): String + updatePlayers() String, i : Integer) + encodeMessage(msg : String) : String + addPoint() + askNextProposition() + encodeOtherUserName(username : String) : String + sendBoardToAllClients() + encodeButtonValidate(buttonValidate : boolean) : String + sendBoard(ip : InetAddress) + encodeServerISDisconnect(): String - sendOtherUserName(ip : + dispose() InetAddress,username : String) - sendCard(ip : InetAddress) - sendRobots(ip : InetAddress) CountDown + sendTime(ip : InetAddress) + sendTimeToAllClients() - timer : Timer - sendRefresh(ip : InetAddress) - time : int + sendUpdates() - controller : Controller + updatePropositionfromPlayer() + createCountDown() PlayerManager + startPlay() + startCountDown() - sendHands(ip : InetAddress, bool : + stopCountDown() - players : Player[] boolean) + resetCountDown() sendbestProposition(proposition : int) - currentHand : int Box + resetPropositions() + addPlayer(p : Player) sendMessage(msg : String) - north: boolean + chooseHand() + nextPlayerProposition() - east : boolean + sortPropositions(p: Player, prop: int) + replaceRobotAtStart() - south : boolean + deletePlayer(p: Player) + setButtonValidate(buttonValidate: + sortPropositions(user : String) : Player - west : boolean boolean ) - x, y : int + doesEveryoneProposed(): boolean + sendServerDisconnect() - color : Color - type : BoxType + setWall(dir : Direction) + canContinue(dir : Direction) : boolean - getImageIcon(Game game): ImageIncon + getJPanel(Game game, int i, int j): Jpannel Solver - tree : StructTree - root : String - leaf : String - game : Game - depth : int Controller - cut : int - solved : boolean game : Game + initsolver(g : Game) - frame :RasendeViewInterface + solve(g : Game) - server : Server Board + createRobot() - client : Client - buildPossibilities() : boolean game : Game - gameBoard : Box[][] - encodeKey(robots : List<Robots>) : - frame : RasendeFrame - numBoardPieces : List<Integer> String - sever : Server - boardPiecesSide[] : char - decodeKey(key:String) : List<Robot> - client : Client + initBoard() - moveRobotInDirection(dir: Direction) - initBoardPieces() - askToQuit() - randomizeNumBoardPieces() + moveLimit() - randomizeBoardPiecesSide() StructTree + timeLimit() + setBoard() putSurroundingWalls() + possibilities : Map<String, Integer> - canMove() : boolean - putCentralBoxes() + parent : Map<String, Integer> - actionPerformed(e : ActionEvent) + oppositeWall() + solutionStack : Stack<String> - mouseClicked(e : MouseEvent) + getNewPosition(robot:Robot, direction + clear() - keyPresse(e : KeyEvent) : Direction, robots :List<Robot>) : + containsKey(key : String) : boolean - checkEndRound(round : int) boolean + addParent(key : String,keyParent : - write(arg0 : int) throws IOException String) + addPossibility(key : String,depth : int) + getKeyFromValue(depth : int) : Map<String, Integer> + buildStack(leaf : String,root : String) - findDirection(after : String,before :

## RasendeViewInterface + display(game : Game,c : Controller) + displayDataInfo(game : Game,c : + displayPlayers(string : String) + displayBoard(game : Game) + displayMoveLimit() + displayConnectionLost() + displayStartServer() : String - - - - - - - → + displayJoinServer() : String[] + setFocusOnBoard() + println(string : String) + setOnlinePerspective(online : Boolean) + setEnabledForfeit(enabled : Boolean) + setEnabledValidate(enabled : Boolean) + getSuggestion(): int

