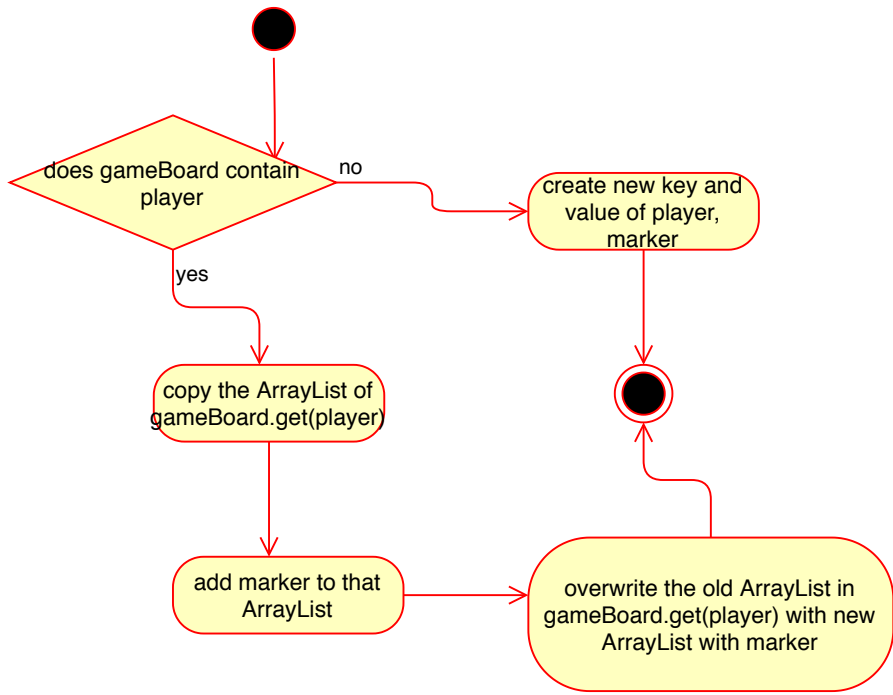


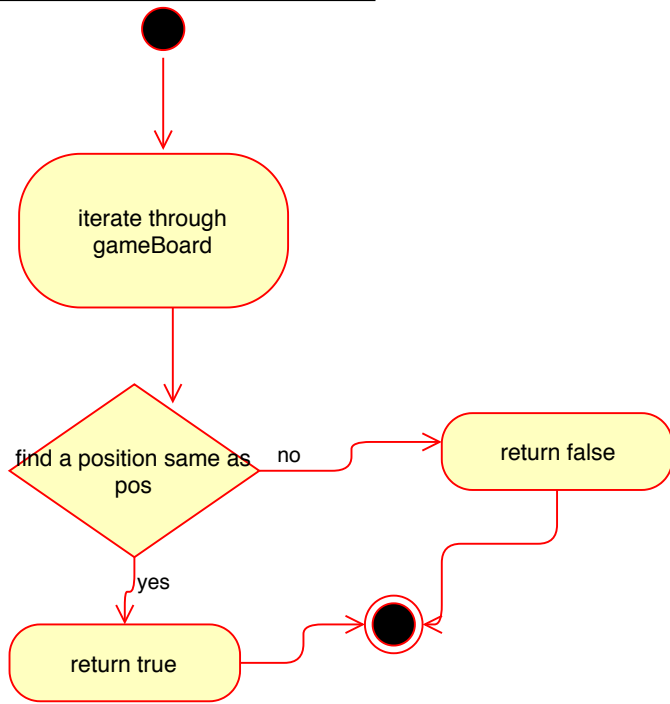
## GameBoardMem

+ placeMarker(BoardPosition marker, char player) : void



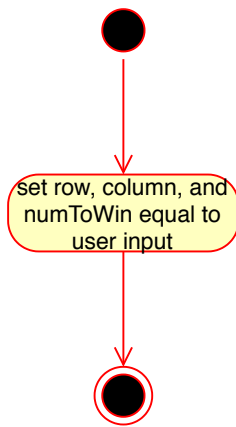
## GameBoardMem

+ whatsAtPos(BoardPosition pos): char



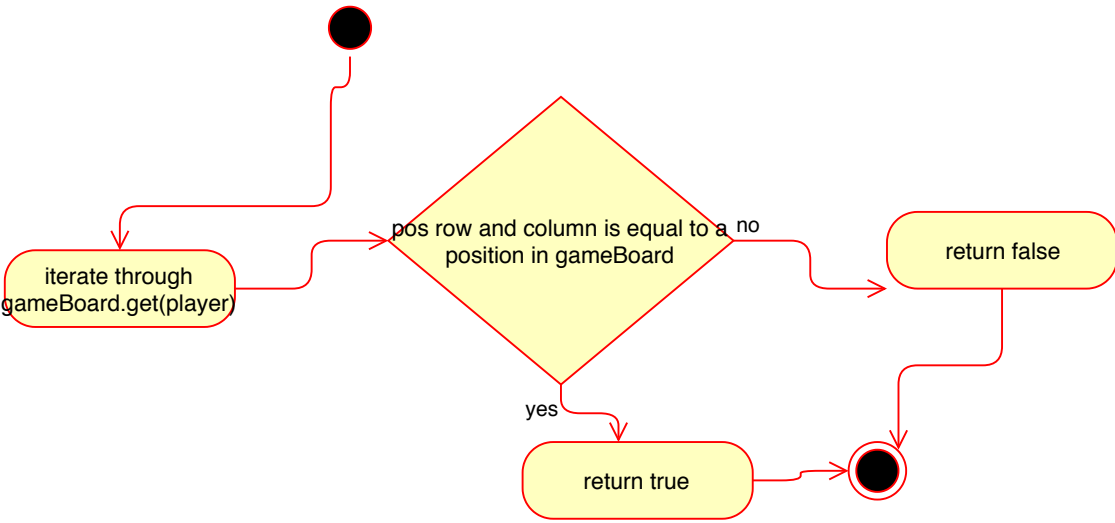
## GameBoardMem

+ GameBoardMem(int rowInput, int columnInput, int numForWinInput): GameBoardMem



## GameBoardMem

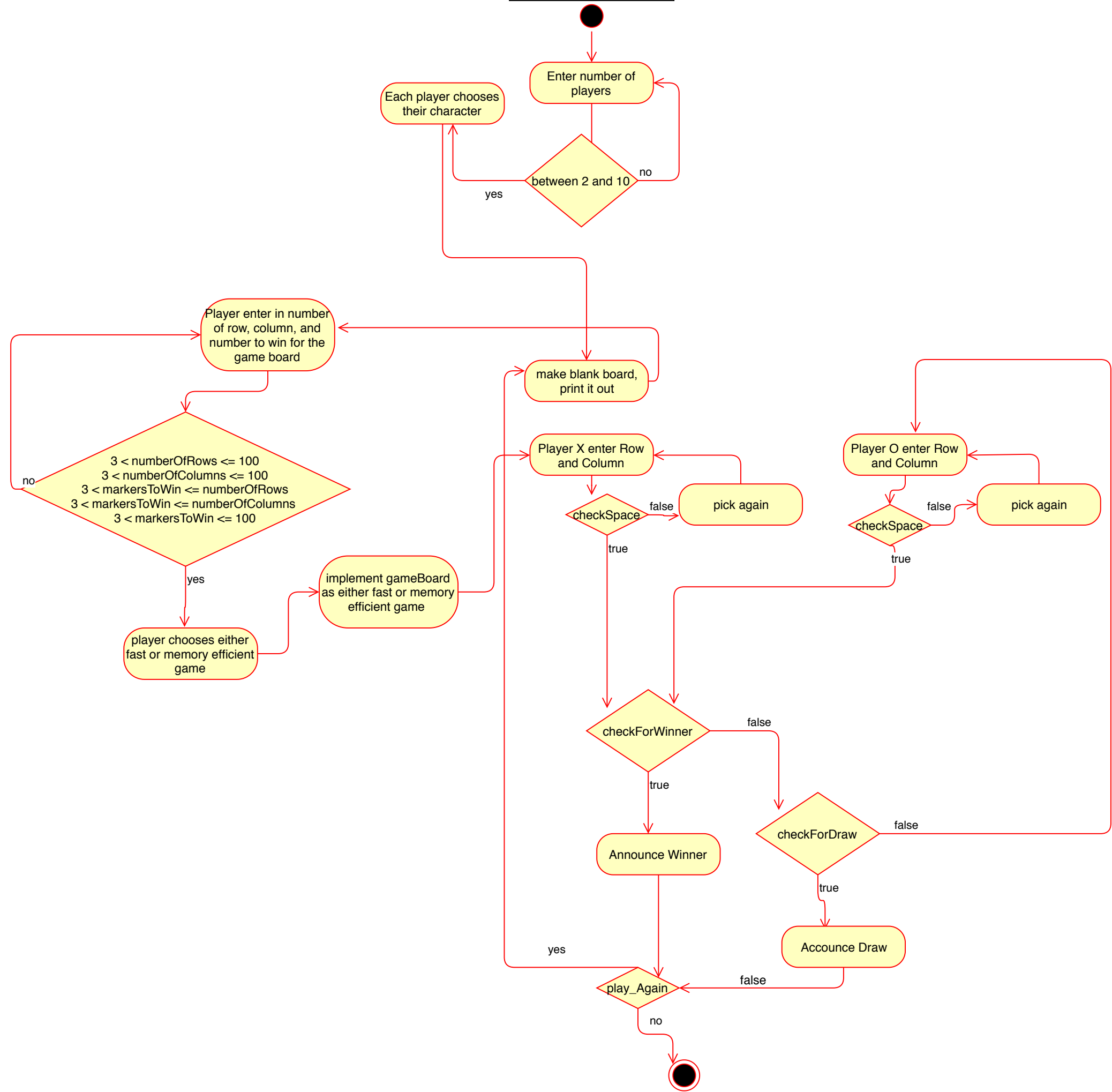
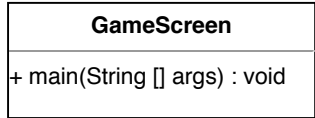
+ isPlayerAtPos(BoardPosition pos, char player) : boolean



## GameScreen

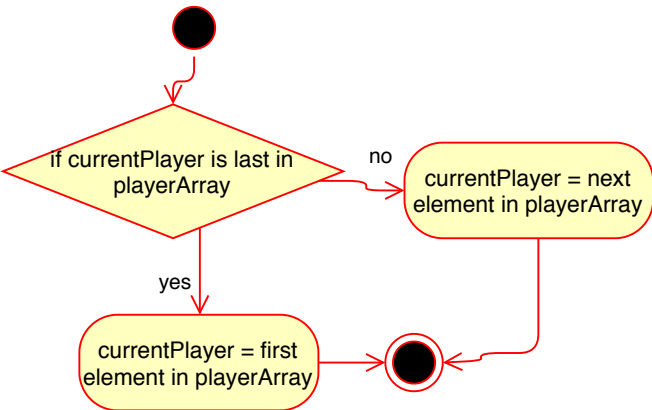
- currentPlayer: char [1]

+ switch\_Turns (ArrayList<Character> playerArray): void  
+ main(String [] args): void  
+ GameScreen(): GameScreen



## GameScreen

+ switch\_Turns (ArrayList<Character> playerArray): void

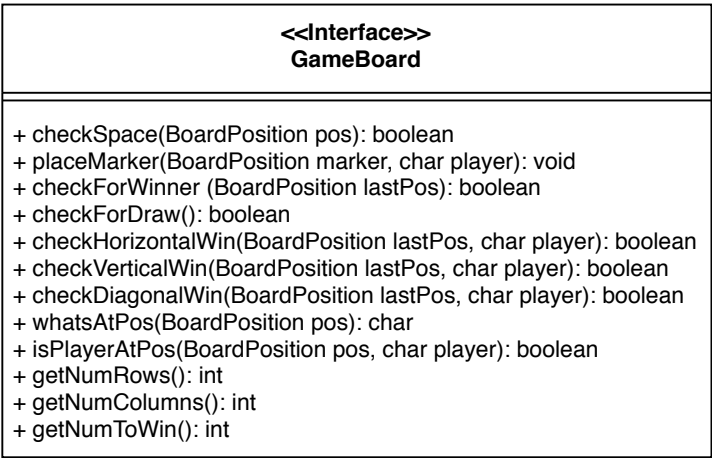
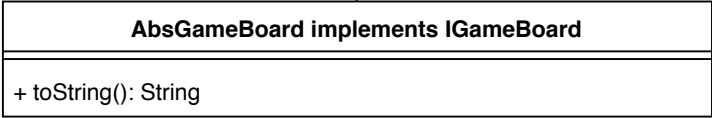
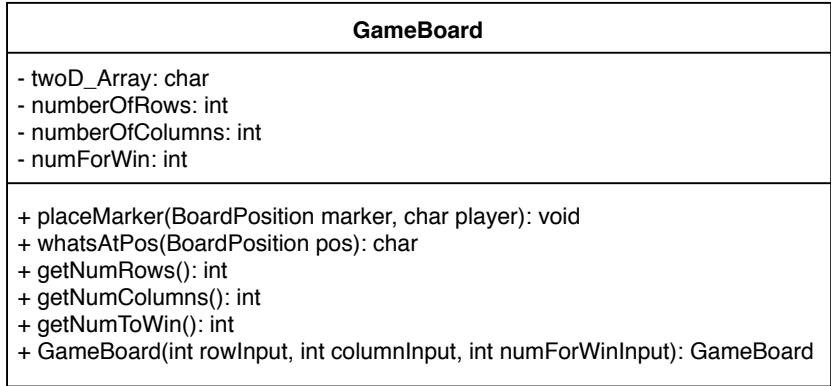


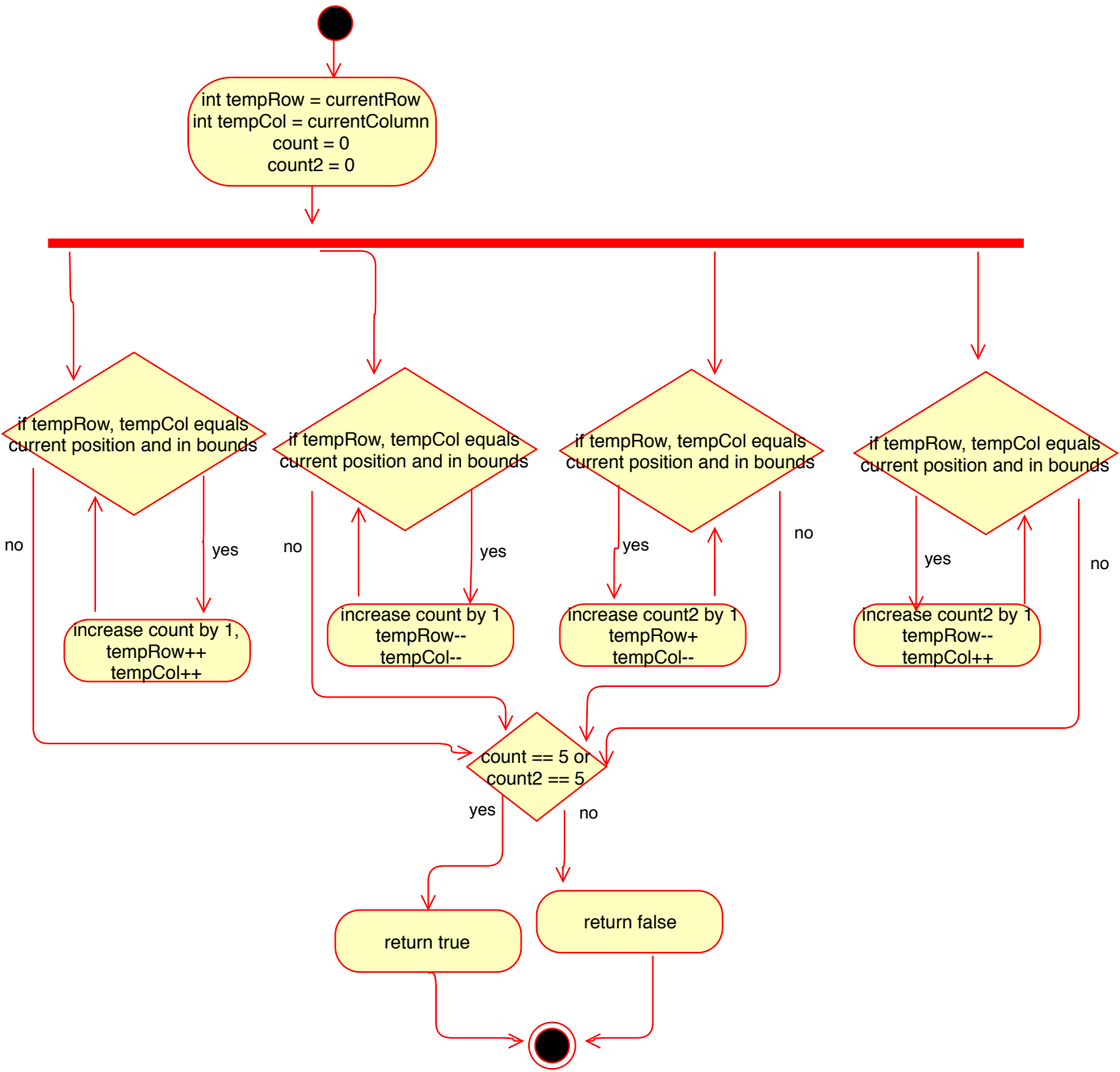
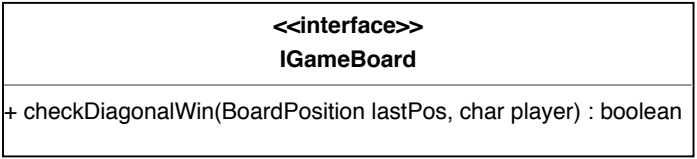


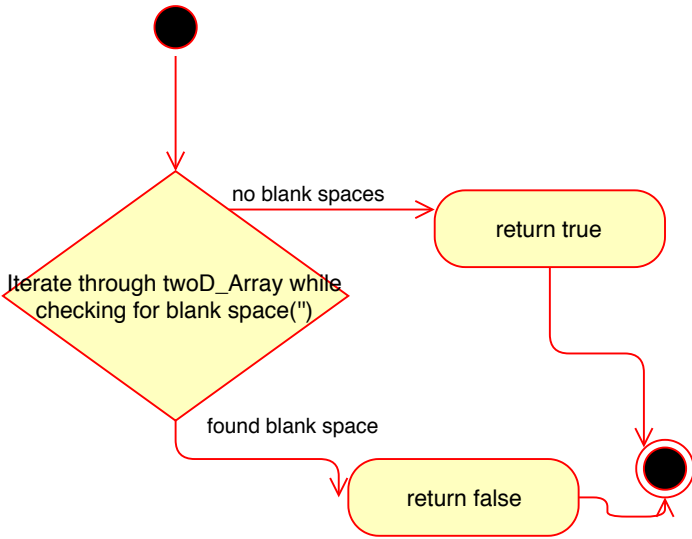
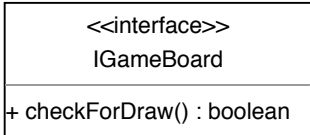
## BoardPosition

- rowCoordinate: int [1]
- columnCoordinate: int [1]

- + BoardPosition (int rowPosition, int colPosition):BoardPosition
- + getRow (): int
- + getColumn(): int
- + equals(Object obj): boolean
- + toString(): String



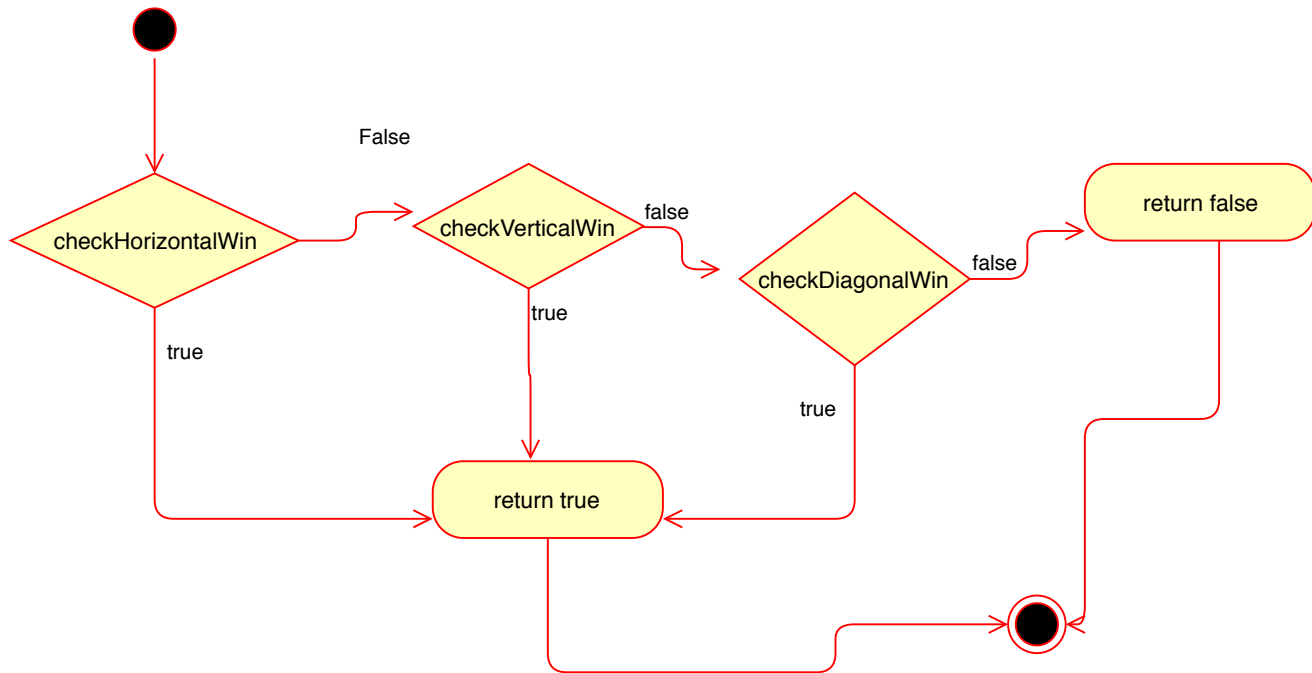




<<interface>>

IGameBoard

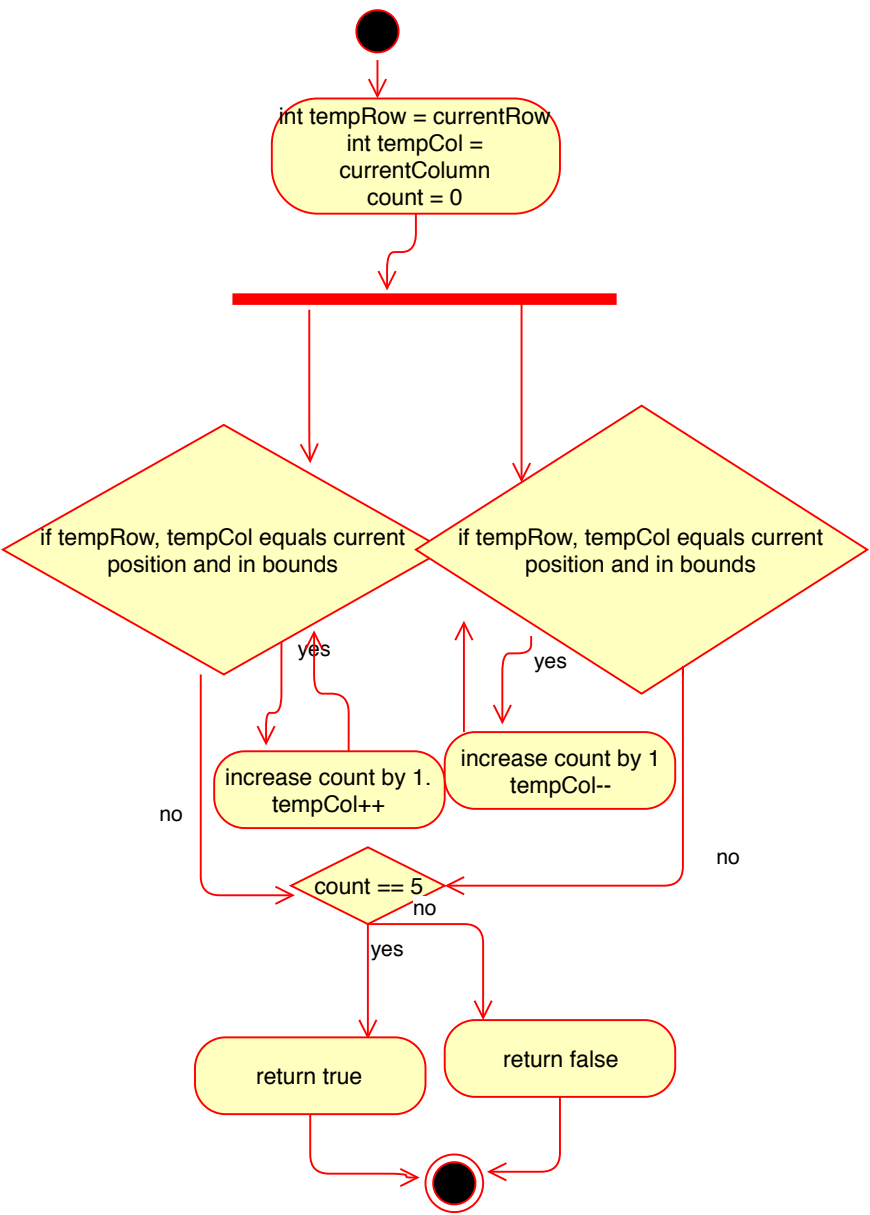
+ checkForWinner(BoardPosition lastPos) : boolean

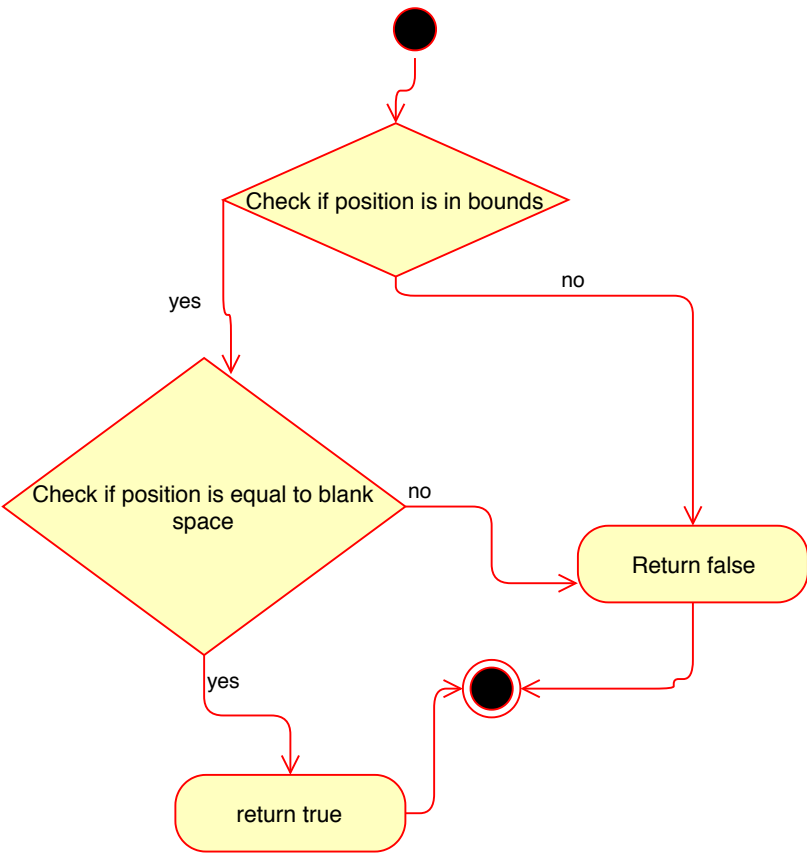


<<interface>>

IGameBoard

+ checkHorizontalWin(BoardPosition lastPos, char player) : boolean

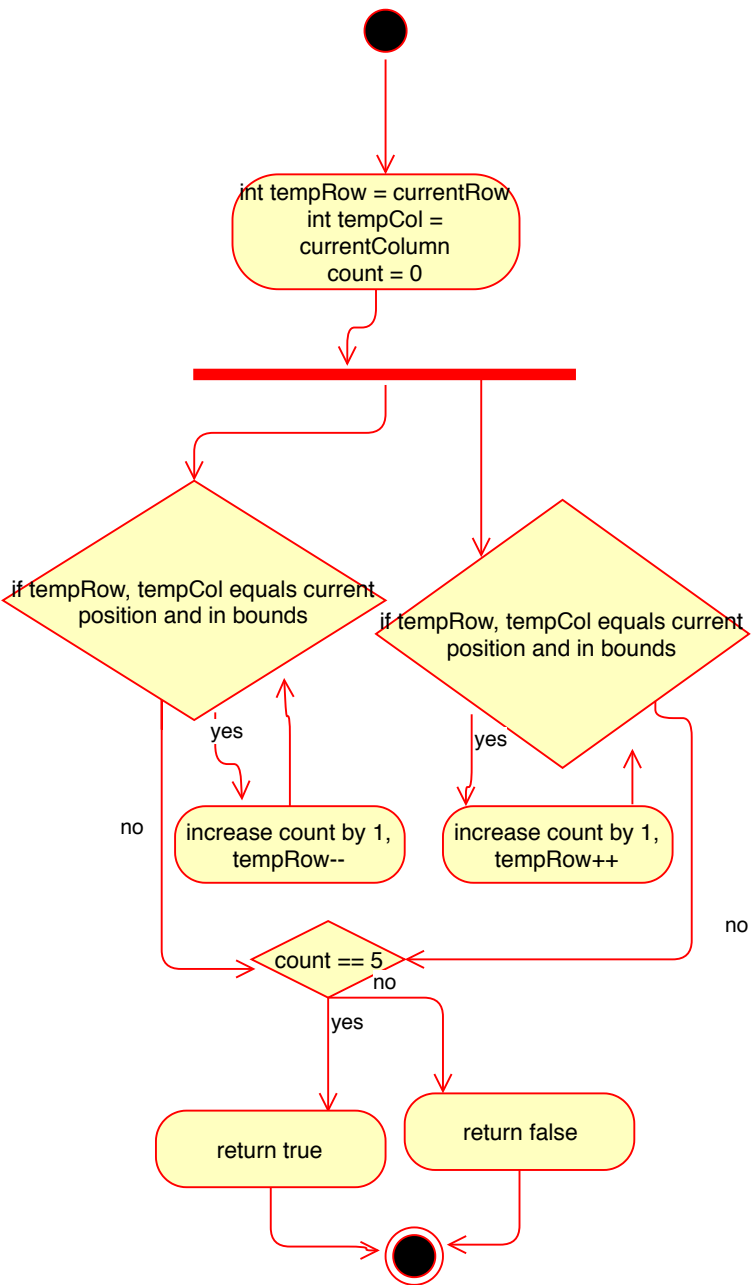




<<interface>>

IGameBoard

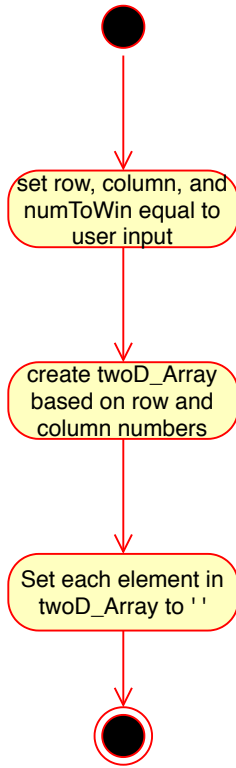
+ checkVerticalWin(BoardPosition lastPos, char player) : boolean





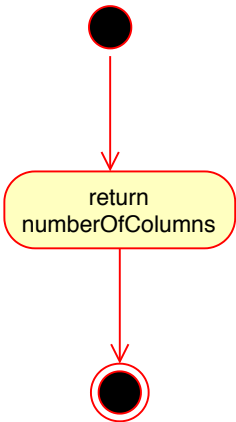
## GameBoard

+ GameBoard(int rowInput, int columnInput, int numForWinInput): GameBoard



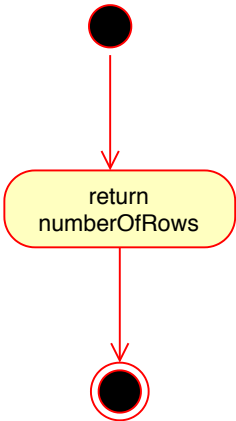
# GameBoard

+ getNumColumns() : int



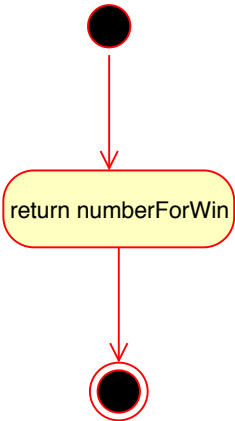
# GameBoard

+ getNumRows() : int



# GameBoard

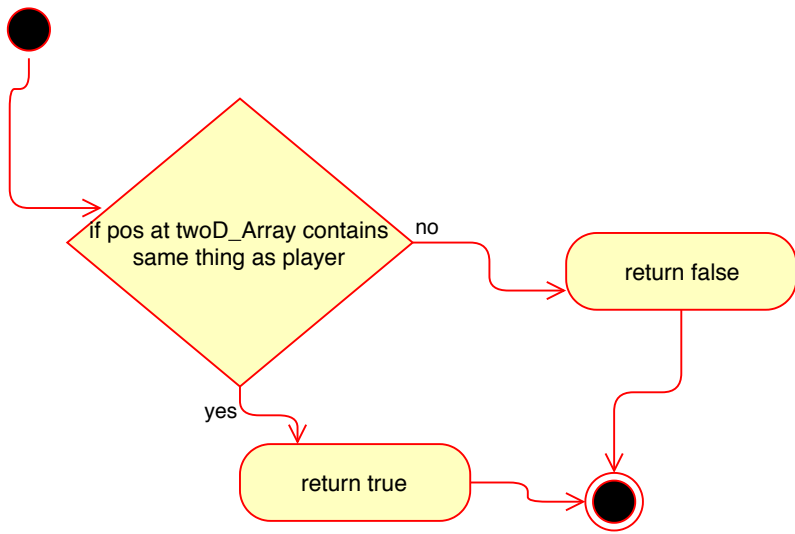
+ getNumToWin() : int



**<<interface>>**

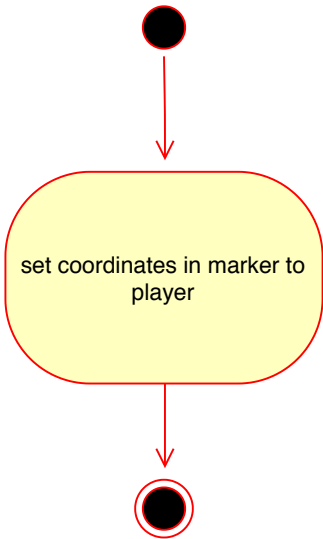
**IGameBoard**

+ isPlayerAtPos(BoardPosition pos, char player) : boolean



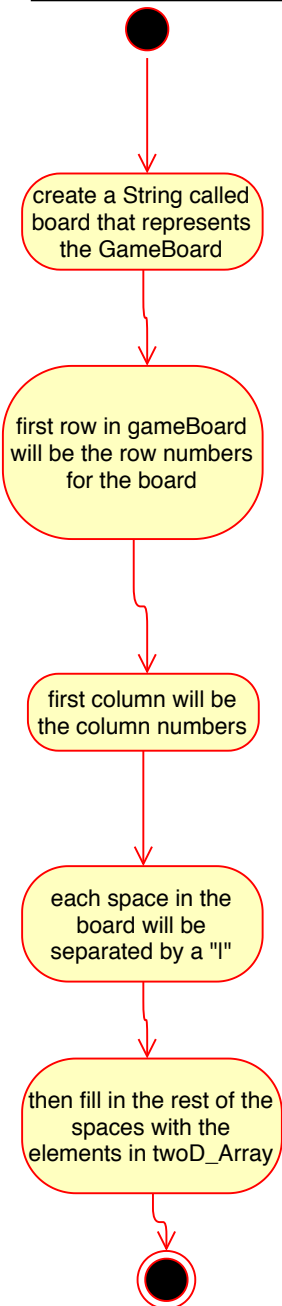
## GameBoard

+ placeMarker(BoardPosition marker, char player) : void



## AbsGameBoard

+ toString(): String



## GameBoard

+ whatsAtPos(BoardPosition pos): char



return whatever is at pos  
in twoD\_Array





**<<Interface>>  
GameBoard**

- twoD\_Array: char

- + checkSpace(BoardPosition pos): boolean
- + placeMarker(BoardPosition marker, char player): void
- + checkForWinner (BoardPosition lastPos): boolean
- + checkForDraw(): boolean
- + checkHorizontalWin(BoardPosition lastPos, char player): boolean
- + checkVerticalWin(BoardPosition lastPos, char player): boolean
- + checkDiagonalWin(BoardPosition lastPos, char player): boolean
- + whatsAtPos(BoardPosition pos): char
- + isPlayerAtPos(BoardPosition pos, char player): boolean
- + toString(): String
- + GameBoard(): GameBoard