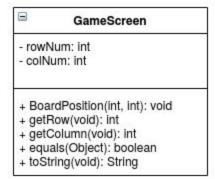
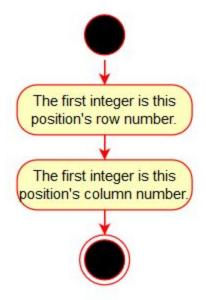
Requirements Analysis:

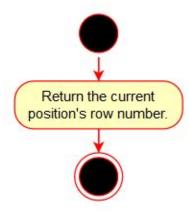
- ➤ Functional Requirements:
 - As a player, I need to know whether I am 'X's or 'O's to be able to play the game.
 - As a player, I need to be able to place a token in a column of my choice to try and beat my opponent.
 - As a player, I need to be able to see the current state of the game board to determine my next move.
 - As a player, I need the game to tell me if I select a column that is already full so that I don't break the rules.
 - As a player, I need the game to tell me if I select a column that is out of range so that I don't break the rules.
 - As a player, I want the game to tell me if I won, lost, or tied with the other player so that I know the result of the game.
 - o As a player, I want the option to play again if I want to play another game.
- ➤ Nonfunctional Requirements:
 - The game must be programmed using Java.
 - The game must run on a Unix system.
 - o The game must run as efficiently as possible.



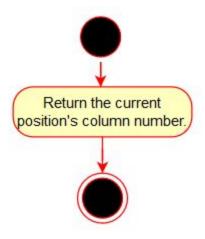
public BoardPosition(int row, int column):



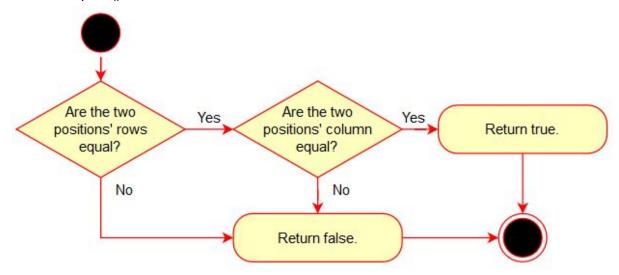
public int getRow():



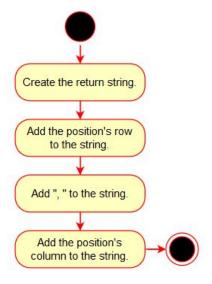
public int getColumn():



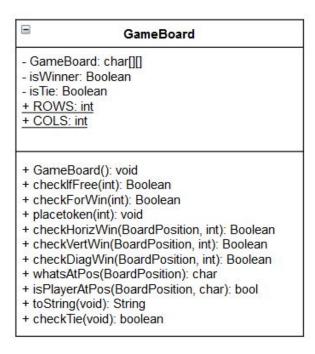
public bool equals():



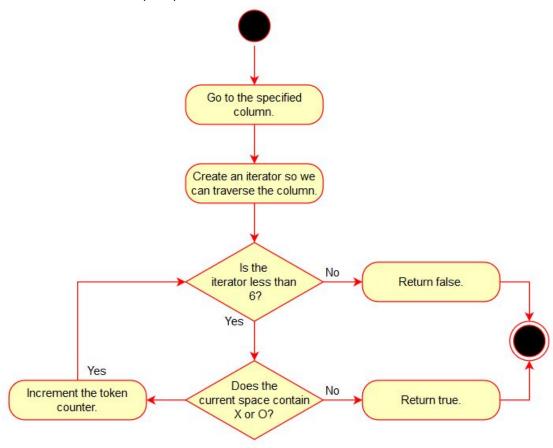
public String toString():



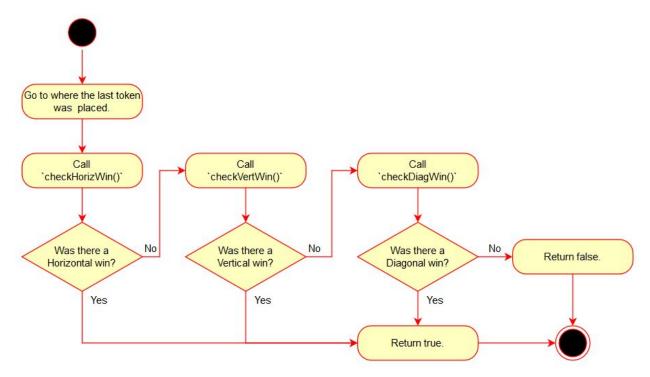
GameBoard class:



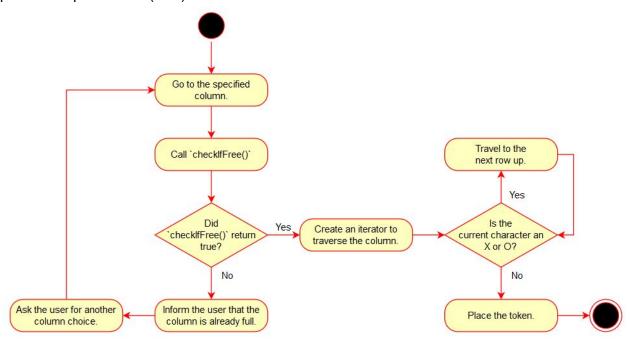
public boolean checklfFree(int c):



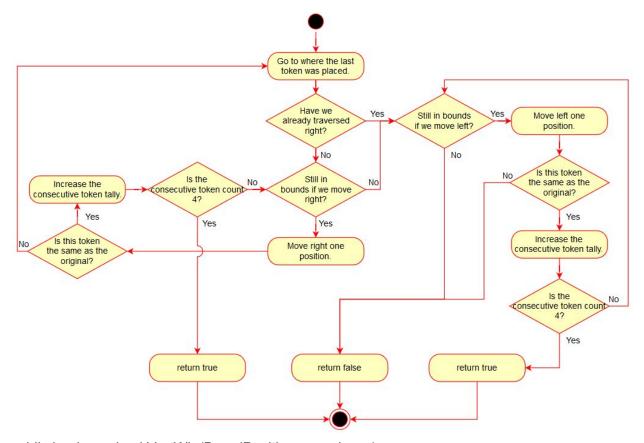
public boolean checkForWin(int c):



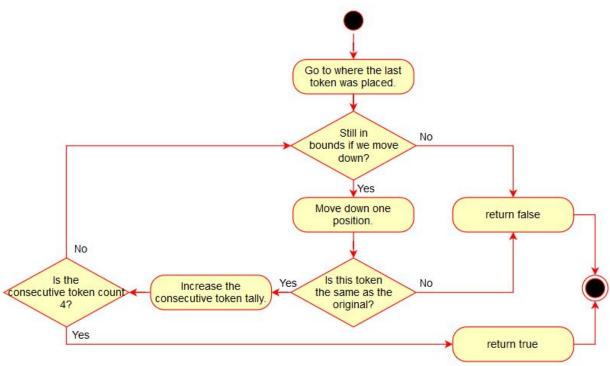
public void placeToken(int c):



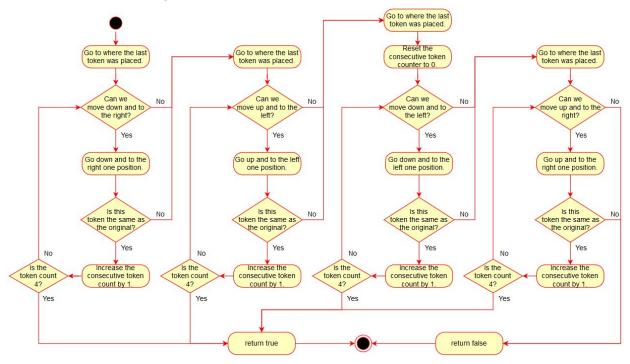
public boolean checkHorizWin(BoardPosition pos, char p):



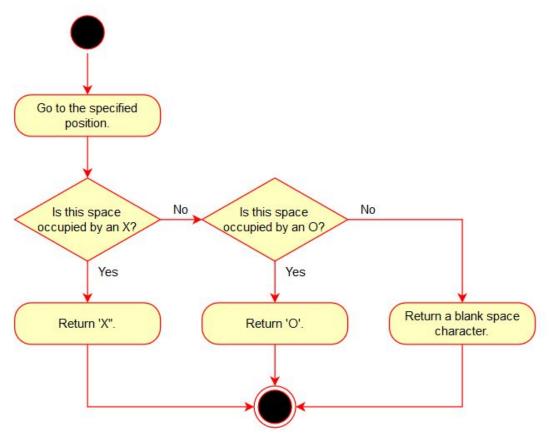
public boolean checkVertWin(BoardPosition pos, char p):



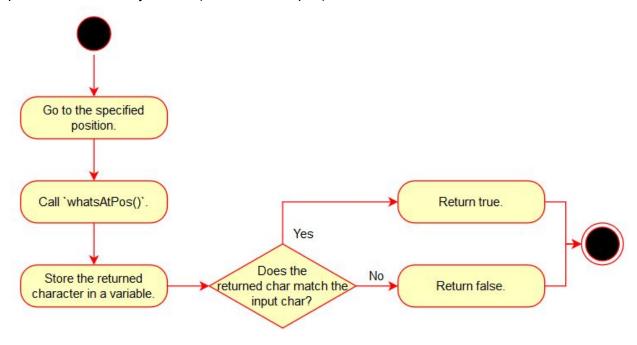
public boolean checkDiagWin(BoardPosition pos, char p):



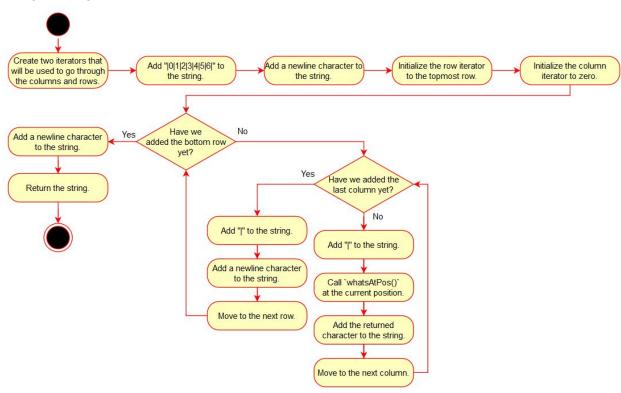
public char whatsAtPos(BoardPosition pos):



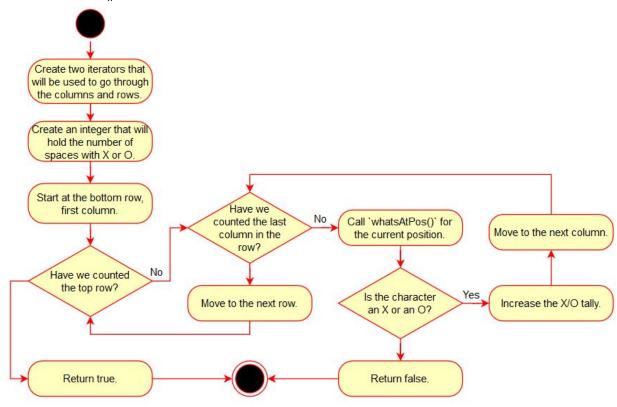
public boolean isPlayerAtPos(BoardPosition pos):



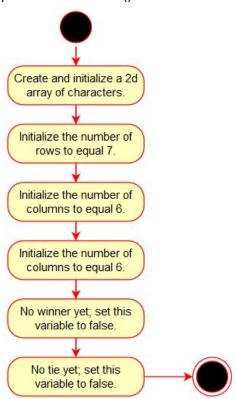
String toString():



boolean checkTie():



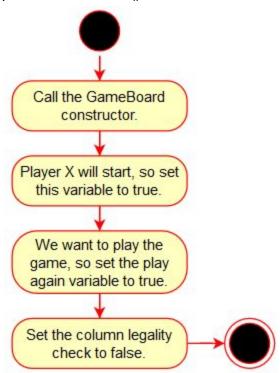
public GameBoard():



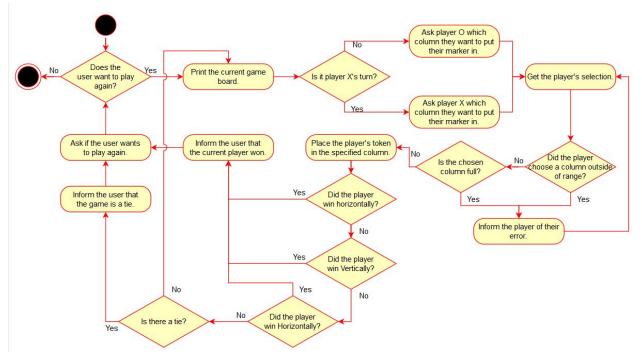
GameScreen class:

GameScreen - isPlayerXTurn: boolean - playAgain: boolean - isLegalColumn: boolean + main(String): void + GameScreen(void): void + printGameBoard(string): void + getPlayersChoice(void): char + getIsPlayerXTurn(void): boolean + setIsPlayerXTurn(boolean): void

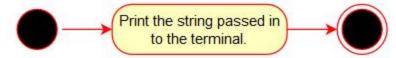
public GameScreen():



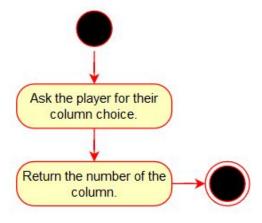
public static void main(String [] args):



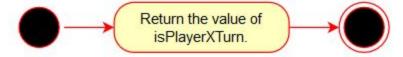
public void printGameBoard(string):



public int getPlayersChoice():



public bool getIsPlayerXTurn():



public void setIsPlayerXTurn(bool):

