import java.util.Scanner;  
  
public class XOGame {  
  
 char[][] board;  
 int size;  
 char PlayerX;  
 char PlayerO;  
 int row;  
 int col;  
  
 public XOGame() {  
 size = 3;  
 board = new char[size][size];  
 PlayerX = 'X';  
 PlayerO = 'O';  
 row = 0;  
 col = 0;  
 }  
  
 public void PrintBoard() {  
 for (int i = 0; i < size; i++) {  
 System.*out*.println("-------------");  
 for (int j = 0; j < size; j++)  
 System.*out*.print(("|") + board[i][j] + ("|") + ("\t"));  
 System.*out*.println();  
 }  
 System.*out*.println("-------------");  
 }  
  
 public boolean checkRowCol(char c1, char c2, char c3) {  
 return ((c1 != '\u0000') && (c1 == c2) && (c2 == c3));  
 }  
  
  
 public boolean RowsWinnerCheck() {  
 for (int i = 0; i < 3; i++) {  
 if (checkRowCol(board[i][0], board[i][1], board[i][2]) == true) {  
 return true;  
 }  
 }  
 return false;  
 }  
  
 public boolean ColumnsWinnerCheck() {  
 for (int i = 0; i < 3; i++) {  
 if (checkRowCol(board[0][i], board[1][i], board[2][i]) == true) {  
 return true;  
 }  
 }  
 return false;  
 }  
  
  
 public boolean DiangonalWinnerCheck() {  
 return ((checkRowCol(board[0][0], board[1][1], board[2][2]) == true) || (checkRowCol(board[0][2], board[1][1], board[2][0]) == true));  
 }  
  
 public boolean WinnerCheck() {  
 return (RowsWinnerCheck() || ColumnsWinnerCheck() || DiangonalWinnerCheck());  
  
 }  
  
 public boolean isDraw() {  
 boolean IsDraw = true;  
 for (int i = 0; i < 3; i++) {  
 for (int j = 0; j < 3; j++) {  
 if (board[i][j] == '\u0000') {  
 IsDraw = false;  
 }  
 }  
 }  
 return IsDraw;  
 }  
  
 public void PlayersEntry() {  
 System.*out*.println("PlayerX Enter position to play row and column");  
 Scanner input = new Scanner(System.*in*);  
 row = input.nextInt() - 1;  
 col = input.nextInt() - 1;  
 board[row][col] = PlayerX;  
 PrintBoard();  
 if (isDraw() && !WinnerCheck()) {  
 return;  
 } else if (WinnerCheck()) {  
 System.*out*.println("The Winner is PlayerX");  
 return;  
 }  
  
 System.*out*.println("PlayerO Enter position to play row and column");  
 row = input.nextInt() - 1;  
 col = input.nextInt() - 1;  
 board[row][col] = PlayerO;  
 PrintBoard();  
 if (WinnerCheck()) {  
 System.*out*.println("The Winner is PlayerO");  
 return;  
 }  
 }  
  
  
 public static void main(String[] args) {  
 boolean PlayAgain=false;  
 Scanner input=new Scanner(System.*in*);  
 do {  
 System.*out*.println("New Game Starting");  
 XOGame G1 = new XOGame();  
 G1.PrintBoard();  
 do {  
 G1.PlayersEntry();  
 } while (!G1.WinnerCheck() && !G1.isDraw());  
 if (G1.isDraw() && !G1.WinnerCheck()) {  
 System.*out*.println("The game was a tie!");  
 }  
 System.*out*.println("If you want to play again enter 1 or Enter any number to Exit");  
 int Again=input.nextInt();  
 if (Again==1) {  
 PlayAgain = true;  
 }else {PlayAgain=false;  
 break;}  
 }while (PlayAgain=true);  
 }  
}