

hady > src > XOGame

XOGame.java

```
1 import java.util.Scanner;
2
3 public class XOGame {
4
5     char[][] board;
6     int size;
7     char PlayerX;
8     char Player0;
9     int row;
10    int col;
11
12    public XOGame() {
13        size = 3;
14        board = new char[size][size];
15        PlayerX = 'X';
16        Player0 = '0';
17        row = 0;
18        col = 0;
19    }
20
21    public void PrintBoard() {
22        for (int i = 0; i < size; i++) {
23            System.out.println("-----");
24            for (int j = 0; j < size; j++)
25                System.out.print("|" + board[i][j] + "|" + (" ") + ("t"));
26            System.out.println();
27        }
28        System.out.println("-----");
29    }
30
31    public boolean checkRowCol(char c1, char c2, char c3) { return ((c1 != '\u0000') && (c1 == c2) && (c2 == c3)); }
32
33
34
35
36    public boolean RowsWinnerCheck() {
37        for (int i = 0; i < 3; i++) {
38            if (checkRowCol(board[i][0], board[i][1], board[i][2]) == true) {
39                return true;
40            }
41        }
42        return false;
43    }
44 }
```

Run: XOGame

4: Run 6: TODO Terminal 0: Messages

Build completed successfully in 2 s 616 ms (6 minutes ago)

Ant

Event Log

2:1 LF UTF-8 4 spaces

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XOGame.java

```
45 public boolean ColumnsWinnerCheck() {
46     for (int i = 0; i < 3; i++) {
47         if (checkRowCol(board[0][i], board[1][i], board[2][i]) == true) {
48             return true;
49         }
50     }
51     return false;
52 }
53
54
55 public boolean DiagonalWinnerCheck() {
56     return ((checkRowCol(board[0][0], board[1][1], board[2][2]) == true) || (checkRowCol(board[0][2], board[1][1], board[2][0]) == true));
57 }
58
59 public boolean WinnerCheck() {
60     return (RowsWinnerCheck() || ColumnsWinnerCheck() || DiagonalWinnerCheck());
61 }
62 }
63
64 public boolean isDraw() {
65     boolean IsDraw = true;
66     for (int i = 0; i < 3; i++) {
67         for (int j = 0; j < 3; j++) {
68             if (board[i][j] == '\u0000') {
69                 IsDraw = false;
70             }
71         }
72     }
73     return IsDraw;
74 }
75
76 public void PlayersEntry() {
77     System.out.println("PlayerX Enter position to play row and column");
78     Scanner input = new Scanner(System.in);
79     row = input.nextInt() - 1;
80     col = input.nextInt() - 1;
81     board[row][col] = PlayerX;
82     PrintBoard();
83     if (isDraw() && !WinnerCheck()) {
84         return;
85     } else if (WinnerCheck()) {
```

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1: Project

2: Favorites

3: Structure

Run: XOGame

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6: TODO

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0: Messages

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1: Project

XOGame.java

84

return;

85

} else if (WinnerCheck()) {

86

System.out.println("The Winner is PlayerX");

87

return;

88

}

89

90

System.out.println("Player0 Enter position to play row and column");

91

row = input.nextInt() - 1;

92

col = input.nextInt() - 1;

93

board[row][col] = Player0;

94

PrintBoard();

95

if (WinnerCheck()) {

96

System.out.println("The Winner is Player0");

97

return;

98

}

99

}

100

101

102

public static void main(String[] args) {

103

boolean PlayAgain=false;

104

Scanner input=new Scanner(System.in);

105

do {

106

System.out.println("New Game Starting");

107

XOGame G1 = new XOGame();

108

G1.PrintBoard();

109

do {

110

G1.PlayersEntry();

111

} while (!G1.WinnerCheck() && !G1.isDraw());

112

if (G1.isDraw() && !G1.WinnerCheck()) {

113

System.out.println("The game was a tie!");

114

}

115

System.out.println("If you want to play again enter 1 or Enter any number to Exit");

116

int Again=input.nextInt();

117

if (Again==1) {

118

PlayAgain = true;

119

}else {PlayAgain=false;

120

break;}

121

}while (PlayAgain=true);

122

}

123

}

124

2: Favorites

Z: Structure

Run: XOGame

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6: TODO

Terminal

All files are up-to-date (a minute ago)

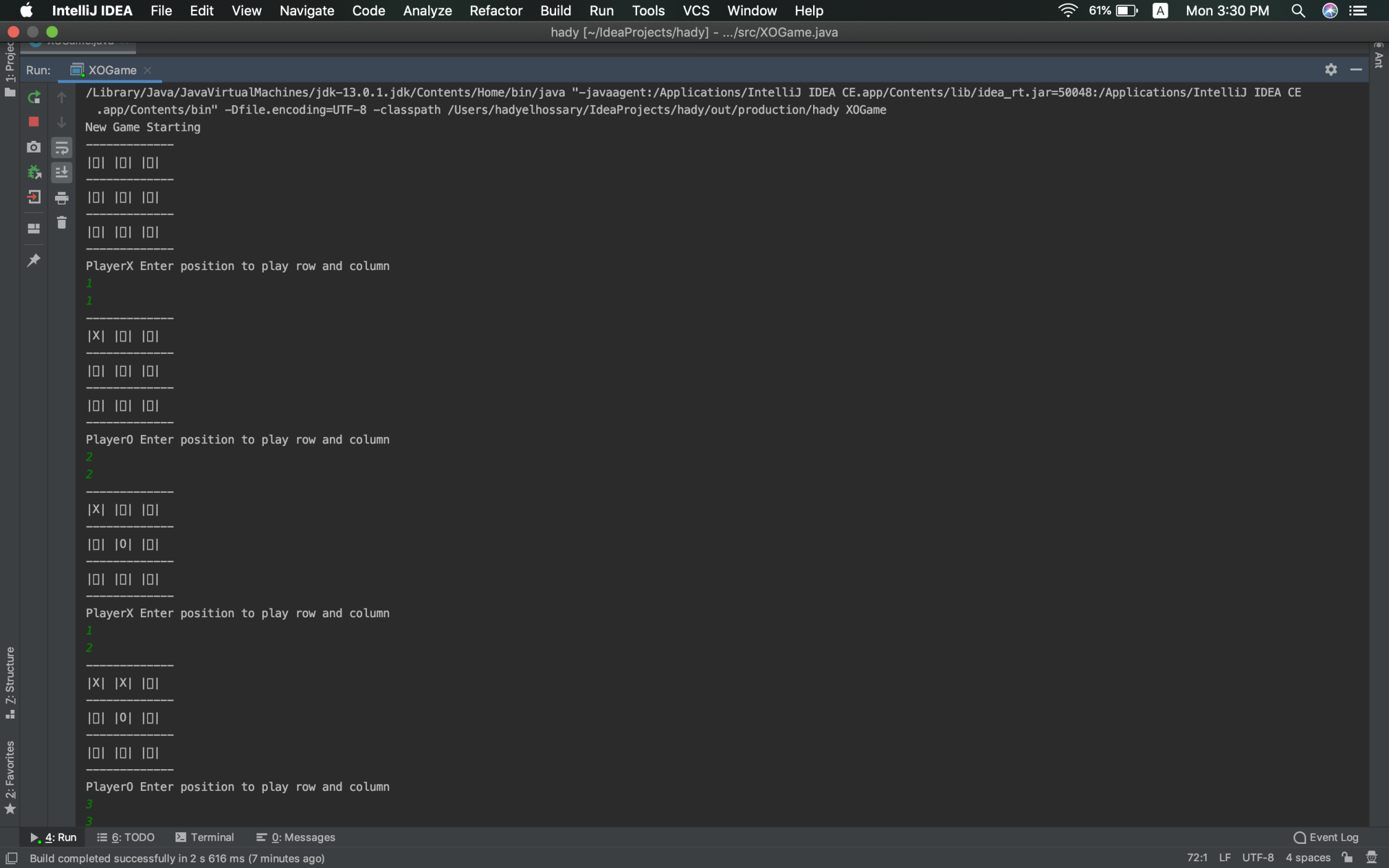
124:1

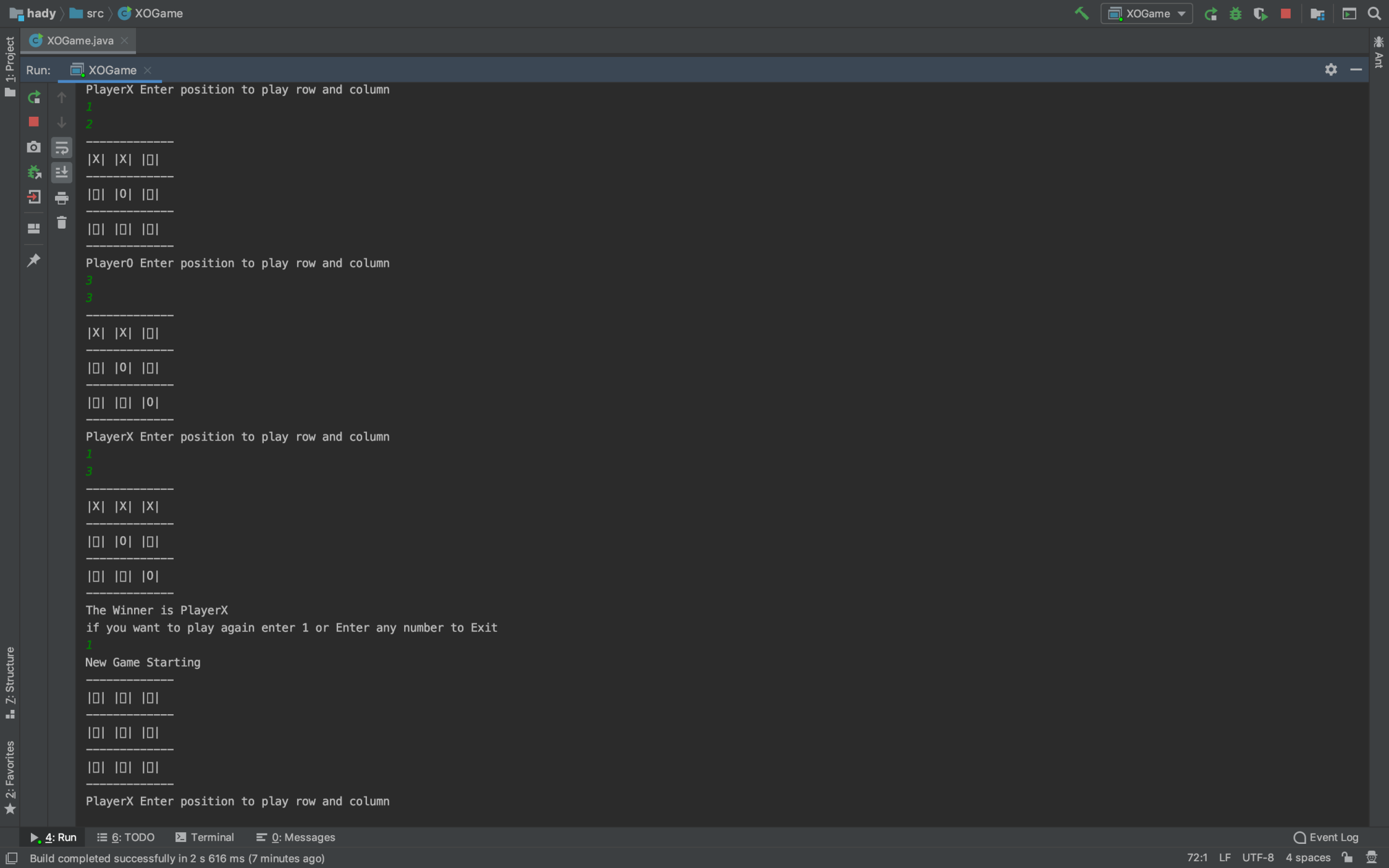
LF

UTF-8

4 spaces

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2

3public class XOGame {

4

5char[][] board;

6

XOGame

Run: XOGame

PlayerX Enter position to play row and column

3

1

|0| |X| |0|

|0| |X| | |

|X| | | |X|

Player0 Enter position to play row and column

3

2

|0| |X| |0|

|0| |X| | |

|X| |0| |X|

PlayerX Enter position to play row and column

2

3

|0| |X| |0|

|0| |X| |X|

|X| |0| |X|

The game was a tie!

If you want to play again enter 1 or Enter any number to Exit

0

Process finished with exit code 0

4: Run

6: TODO

Terminal

Event Log

All files are up-to-date (a minute ago)

105:1 LF UTF-8 4 spaces