```
File - C:\aprendizado\java\nélioUdemy\chess-system\src\chess\pieces\Rook.java
 1 package chess.pieces;
 3 import boardgame.Board;
 4 import boardgame.Piece;
 5 import boardgame.Position;
 6 import chess.ChessPiece;
 7 import chess.Color;
 9 import java.util.Scanner;
10
11 public class Rook extends ChessPiece {
12
       public Rook(Board board, Color color) {
13
14
            super(board, color);
15
16
17
       00verride
18
       public String toString() {
19
           return "R";
20
21
22
       public boolean[][] possibleMoves(Position position){
23
           boolean[][] mat = new boolean[getBoard().getRows()][getBoard().getColumns()];
24
           Position p = new Position(0,0);
25
26
27
           p.setValues(position.getRow()-1, position.getColumn());
28
           while (p.getRow() >= 0 && !getBoard().thereIsAPiece(p) ){
29
                mat[p.getRow()][p.getColumn()] = true;
30
                p.setRow(p.getRow()-1);
31
32
           if (getBoard().positionExists(p) && isThereOpponentPiece(p)){
33
               mat[p.getRow()][p.getColumn()] = true;
34
35
36
37
           p.setValues(position.getRow(), position.getColumn() -1);
           while (p.getColumn() >= 0 && !getBoard().thereIsAPiece(p) ){
38
39
                mat[p.getRow()][p.getColumn()] = true;
40
                p.setColumn(p.getColumn()-1);
41
42
           if (getBoard().positionExists(p) && isThereOpponentPiece(p)){
               mat[p.getRow()][p.getColumn()] = true;
43
44
           }
45
46
47
           p.setValues(position.getRow()+1, position.getColumn());
           while (p.getRow() < getBoard().getRows() && !getBoard().thereIsAPiece(p) ){</pre>
48
49
                mat[p.getRow()][p.getColumn()] = true;
50
                p.setRow(p.getRow()+1);
51
52
           if (getBoard().positionExists(p) && isThereOpponentPiece(p)){
53
                mat[p.getRow()][p.getColumn()] = true;
54
           }
55
56
57
           p.setValues(position.getRow(), position.getColumn() +1);
58
           while (p.getColumn() < getBoard().getColumns() && !getBoard().thereIsAPiece(p) ){</pre>
59
                mat[p.getRow()][p.getColumn()] = true;
60
                p.setColumn(p.getColumn()+1);
61
           if (getBoard().positionExists(p) && isThereOpponentPiece(p)){
62
63
               mat[p.getRow()][p.getColumn()] = true;
64
65
66
            return mat;
67
       }
68
69
70
       public boolean[][] possibleMoves() {
71
72
           return possibleMoves(position);
73
74
75 }
76
```