```
1. /// Gets the winning player for a game
 2. ///
 3. /// Returns "X", "O", or "Draw" if a game has ended
 4. ///
 5. /// Returns "Neither" if a game has not ended
 6. ///
 7. fn get_winning_player(state: GameState) -> String {
      //possible combinations of boxes marked to be a winner
9.
      let lines = [
10.
        [0, 1, 2],
        [3, 4, 5],
11.
        [6, 7, 8],
12.
13.
        [0, 3, 6],
        [1, 4, 7],
14.
        [2, 5, 8],
15.
16.
        [0, 4, 8],
17.
        [2, 4, 6],
18.
19.
      case check lines(lines, state) {
20.
        Neither -> {
21.
          case list.contains(state.state, Neither) {
            True -> "Neither"
22.
            _ -> "Draw"
23.
24.
25.
        }
26.
        player -> {
27.
          case player {
            X -> "X"
28.
            _ -> "0"
29.
30.
31.
        }
32.
      }
33. }
34.
35. /// Goes through all possible combinations for getting a three in a row and
36. /// checks if it exists on the current game grid
37. ///
38. fn check_lines(lines: List(List(Int)), state: GameState) -> Player {
39.
      case lines {
40.
        [first, ..rest] -> {
41.
          let assert [a, b, c] = first
          let player = get_from_index(state.state, a)
42.
43.
          let res = case player {
            X | 0 -> {
44.
45.
              case
46.
                player == get_from_index(state.state, b)
47.
                && player == get from index(state.state, c)
48.
49.
                True -> player
50.
                  -> Neither
51.
            }
52.
            _ -> Neither
53.
54.
          }
55.
          case res {
            Neither -> check lines(rest, state)
57.
            _ -> res
58.
59.
        [] -> Neither
60.
61.
62. }
63.
64. /// Helper function to get an item from a list through its index
65. ///
66. fn get_from_index(list: List(a), index: Int) -> a {
      let assert Ok(last) = list.first(list.split(list, index).1)
68.
      last
69. }
```