Pseudocode for Check Row:
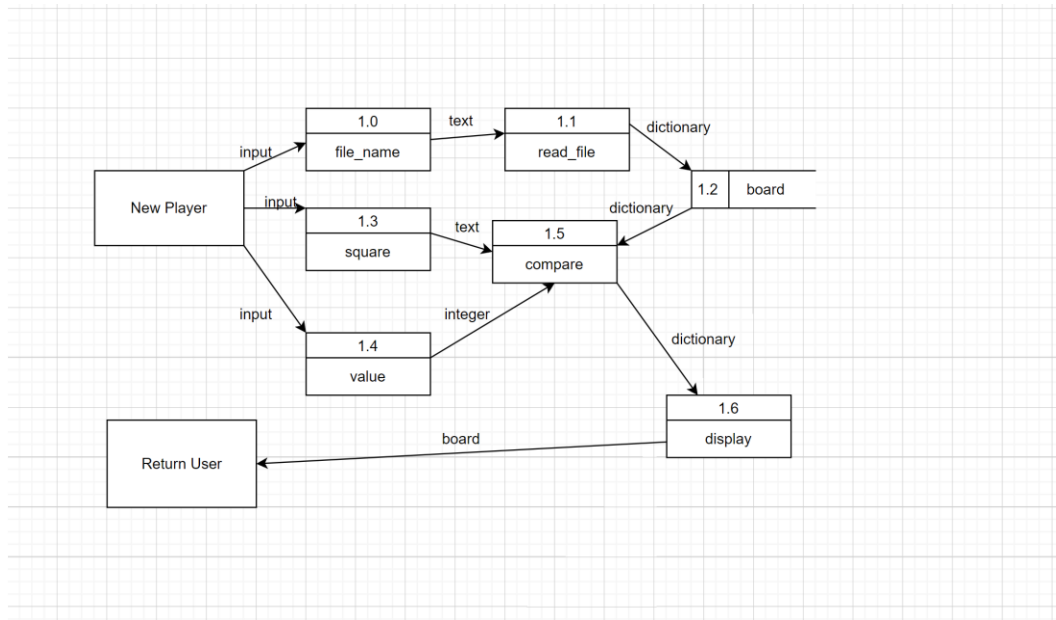
check_row(value, square, board)

  FOR i, board[board][row_number], i++

    IF i == value

      RETURN False

    ELSE

      RETURN TRUE

Pseudocode for Check Square:

check_square(square, board, value)

  i_max ← square[1] + 2

  FOR i, i <= i_max, i++

    FOR j, board[board][i], j++

      IF value == j

        RETURN False

      ELSE

        RETURN TRUE

Dataflow Diagram:

Structure Chart: