

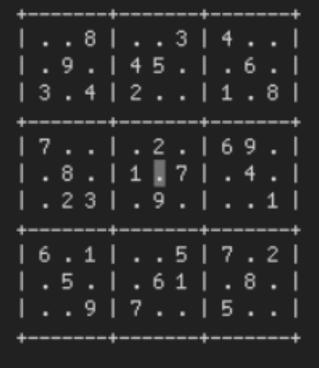
CS50 Walkthrough 4

Marta Bralic



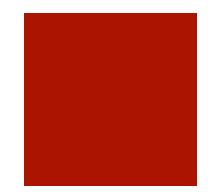
Terminal - ssh - 80×24

Suduko by John Harvard



playing n00b #42

by John Harvard



To Do

- ncurses
- move cursor
- allow changing user-added numbers, but not original ones.
- allow replacement of blank with number
- invalid move?

wou

ncurses

- Allows you to change colors, appearance of your program.
 - Always have foreground and background color.
- Allows you to have a cursor.
 - User interface
 - Updating board

Moving the cursor

Switch statements!

switch (test)

case x:

{

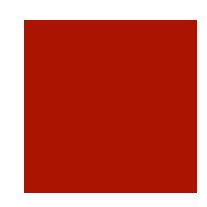
}

case y:

//Do this for cases x and y

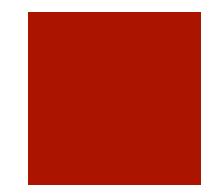
default:

//Do this otherwise



How to refer to keys/cursor?

- Keys
 - KEY_UP
 - KEY_DOWN
 - KEY_LEFT
 - KEY_RIGHT
- - g.board[g.y]][g.x] is spot on board where cursor is
 - g.y is cursor's y position
 - g.x is cursor's x position
 - showcursor()



Don't replace original or move when won!

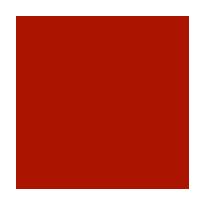
- Keep track of locations originally there.
- Before moving, ensure that it is not an original number and that game is not won
 - make a copy of the board at start.
 - If not a 0 in original board, don't change it!

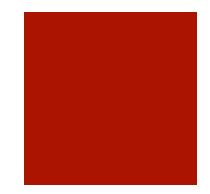
Replace blanks/non-original numbers

- function, takes one argument ch (ascii)
 - if ch is 0, . , KEY_BACKSPACE, KEY_DC
 - set that spot in the board to 0
 - if ch is numerical between '1' and '9'
 - set that spot in the board to the values 1 through 9, not the ascii 1 through 9
 - like in Ceasar, subtract '0'
 - drawnumbers()

Invalid move!

- Wrap from the one next to/above the tile, to the one right before/below it, looking for the value in the tile.
- Check each box by starting top left, and moving 2 across, and 2 down (like Mario!) looking for same value as g.board[g.y][g.x], but "skip" g.board [g.y][g.x]





Won?

- Go to each box
 - Ensure no 0's
 - Check for errors
 - if no zero, and no errors, showbanner(congratsvariable);
- If not won, return to your box!