Chess

The chess game.

Extra Features

You may regret and undo as many of your moves as you want.

You can dynamically set the difficulty level for Computer Players.

Compile & Run

Compile

make

Run

```
./chess
```

The above commad starts a chess game that has a text display. For graphic interface, execute with flag --graphic

```
./chess --graphic
```

Usage

When the program is running, you could either start a game, configure the board before starting, or quit the game.

All coordinates must be valid coordinates on a standard chess board, among a1 - h8.

All pieces must be valid. (eg R, B, k, p ... where R is for white Rook, k is for Black King)

You can always type invalid input towards this program, it won't crash, just that you have to re-input again.

Start a game

```
game player1 player2
```

players must be valid, among

```
{human | computer1 | computer2 | computer3 | computer4}
```

Here computer1 is the easiest level and computer4 is the hardest.

When started, input

```
move coordinate coordinate
```

to move a piece as human.

You have to indicate a valid piece to promote if needed.

move coordinate coordinate piece

For human players, you can input

resign

to give up this game. (Thus opponent wins.)

Input

move

for computer players to take a move.

Anytime you want to switch diffculty level duing the game, input

setlevel lv

Iv must be a number between 1 and 4 inclusively.

You can try to set the level for human player, but only to get a warning.

Ass a human player, you can also regret, simply input

regret

After each move, the program will print the current board to tty and show who is the next player.

Configure the board

Before a game started, or after a game finished, you can setup the board.

To add a piece by

+ piece coordinate

To delete a piece

- coordinate

To set Which side goes first

= color

Where color is one of

{white, black}

When you finish setting up, input

done

to quit setup mode.

Notice that you are only allowed to quite setup mode when the board is valid.

Quit

Whether you are in the middle of a chess game, finishing a chess game or setting up the chess board, you can always quit the program by sending EOF signal if you wish

Ctrl + D

If you are in a game, the game will be abandoned (no score for both sides).

Before the program exits, it will print the final scores for both sides.