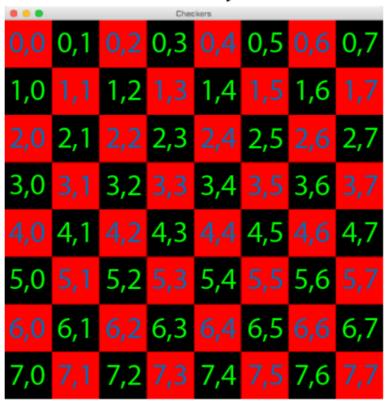
Checkers Game Data Model Concept

```
class Checker
boolean playerColor
    the color of current player
int rounds
    the number of total rounds
char players
     computer or human
void newChecker()
    to start a new game and initialize everything
void saveChecker()
    to save the current data
void loadChecker()
    to read the saved data
void move()
    to call checkMove through class Board when the class
Player call move, if true, call method move in class Board
class Board
char[8][8]
    the current board
void move()
    to move from current location to another according to the
following rules:
     if the lighter piece is (row-1, column-1), (row-1,
column+1), the darker piece is (row+1, column-1), (row+1,
column+1), the king is (row-1, column+1), (row+1, column-1),
(row-1, column-1), and (row+1, column+1), then move.
```

If the lighter piece is (row-2, column-2), (row-2, column+2), the darker piece is (row+2, column-2), (row+2, column+2), the king is (row-2, column+2), (row+2, column-2), (row-2, column-2), and (row+2, column+2), then jump.

Dark Player



Light Player

```
void set()
    to set the board to a certain stage
void reset()
    to reset the board
char[64] show()
    to return the board as an array
boolean checkMove()
```

to check if the move is legal. If the grid to move to is (rown, columnn), and when (rown+columnn)%2==0, the move is illegal.

String currentResult()

to return the current state of result

class Player
the abstract class
String playerName
the name of player

void move()

the abstract method, to request a movement

class Computer extends Player String playerName void move()

to get the state of the board through the move method in class Board

class User extends Player
String playerName
void move()

to check the move through the checkMove method in class Board, if true, make a move through the move method in class Board.