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Checkers

USBEEES User Guide

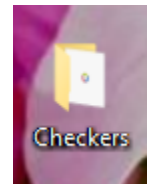
April 19, 2021

Game Description:

The program is a Checkers game that two players can play on the same device. The game itself is a strategy game that involves having twelve pieces for each player on a grid, where the pieces move diagonally by one space. The objective of the game is to capture all twelve of the other player's pieces to win. The game is intellectually stimulating and requires decision-making skills, allowing it to be a great icebreaker game.

Install and Run:

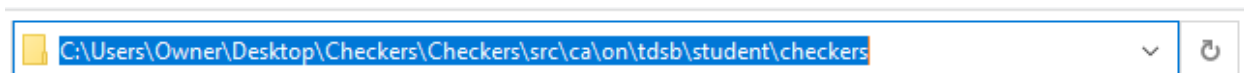
- a. Move the Checkers folder from the Application folder to the directory you want.
- b. Navigate the checkers folder until you enter the folder where the java files are held.



Follow the following route to find the files

Checkers → src → ca → on → tdsb → student → checkers

- c. Copy the file path by clicking on the file icon at the top of the folder and pressing ctrl+c.



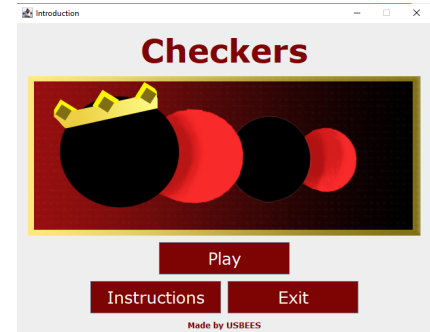
- d. Open windows command prompt, or terminal for macOS, and write **javac**. Then paste your copied file path.
- e. Type ***.java** at the end of the command to compile all of the program java files. Press enter.

```
C:\Users\Owner>javac C:\Users\Owner\Desktop\Checkers\src\ca\on\tdsb\student\checkers\*.java
```

- f. Type **java -cp** and paste your path again, but click backspace to erase the path until the **src** folder.

```
C:\Users\Owner>java -cp C:\Users\Owner\Desktop\Checkers\src\
```

- g. Type the package name at the end of the command by writing **ca.on.tdsb.student.checkers.CheckersMain**. Press enter and the game introduction screen should appear.



```
C:\Users\Owner>java -cp C:\Users\Owner\Desktop\Checkers\src\ ca.on.tdsb.student.checkers.CheckersMain
```

How to use the Program

Player Information:

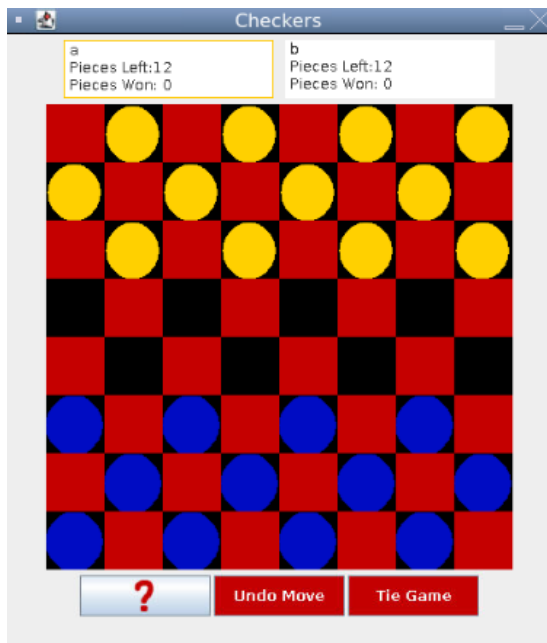
- An information form window will pop up after you click play on the introduction screen.
- All of the information has to be provided before you start the game.

Name Rules:

- The player names must be 10 characters maximum, including spaces.
- The names are case insensitive, so applying different cases to the same word would not make it a different player.
- No trailing or leading white spaces allowed.
- Player 1 name cannot equal player 2 name.

Game Screen:

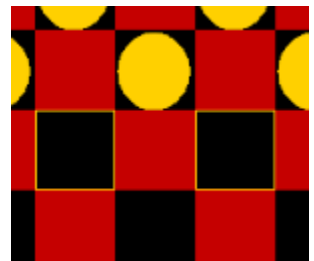
Casual Mode:



- Casual mode has no time restrictions, and players can undo their move twice.

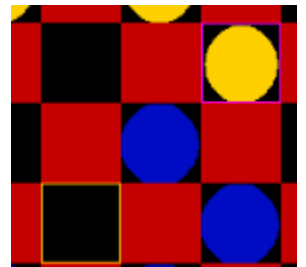
Moving the Pieces:

- Click on the player's piece and see the possible moves indicated by the yellow borders.
- Select the space you want to move to.



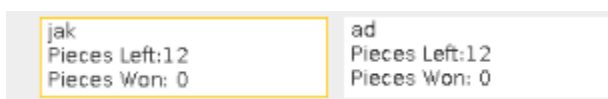
Capture Pieces: Force Take

- The game indicates the chance of capturing an opponent's piece using the purple border.
- If you are able to capture a piece, you must take it.



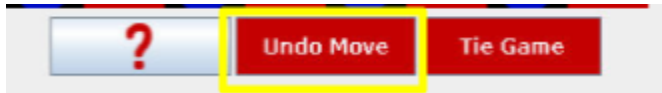
Player Turns:

- Player turns are indicated by the yellow border around the player's box.



Undo button:

- Players can undo their move immediately after making it.
- When the player presses undo for the first time, the turn will remain in that player's hands.
- If the player clicks undo twice, the piece will move to the previous position, but the turn will be transferred to the opponent.



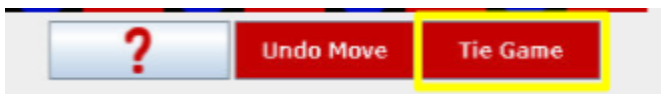
Winner:

- Capturing all 12 pieces of the opponent results in a win. The screen will switch to the winner screen.



Tie option:

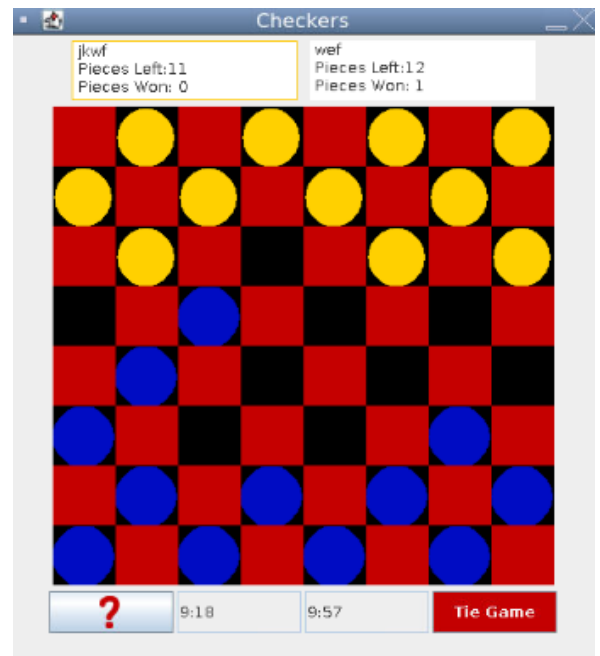
- Players can choose to tie the game if they do not want to play anymore or want to end the game neutrally.



Competitive Mode:

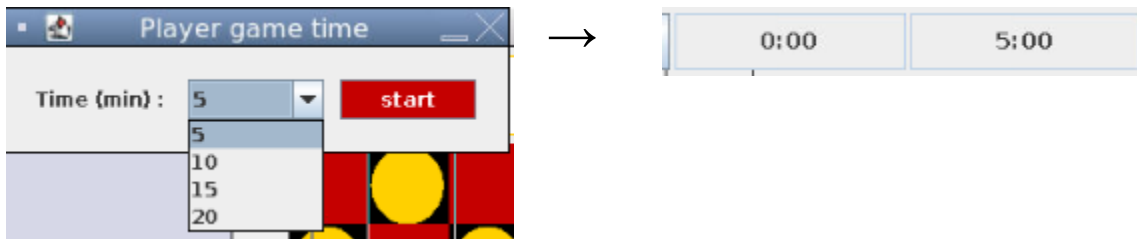
Game mode: ☐ Casual ☒ Competitive

- Competitive mode has a total game time restriction for each player, and there are no chances to undo the player's move.



Timer:

- Players have a specific time during which they have to win the game.
- The timer is paused when it is the other player's turn.
- If the player's time runs out, the other player automatically wins the game.



Special Features:

Instructions:

- On the introduction screen, the instructions button opens the game instructions.

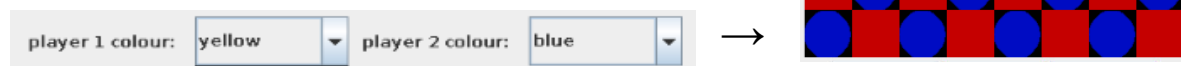


- The instructions button is also available at the bottom of the game. It is indicated with a question mark.



Player colour options:

- Players can choose their piece colour by clicking on the dropdown. Each player has a different assortment of colour options.



Game History

- There is a list of the players' whole history in the Checkers game on the result screen.
 - Includes information like the total number of games they ever won, lost, or tied.
 - Includes their scores from the most recent game.

