Instructions

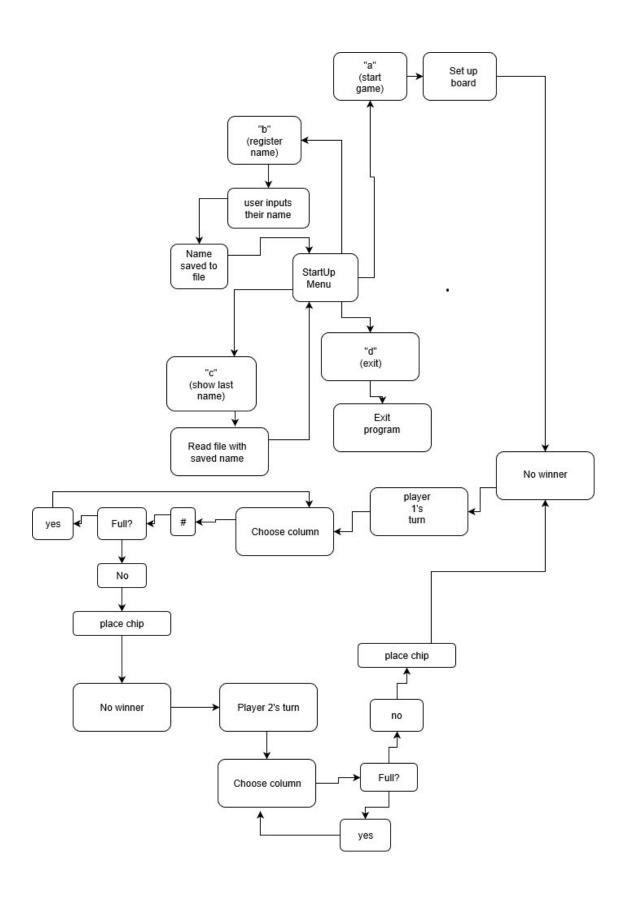
- *The goal of the game is to line up 4 of your color chips before the other player.
- *Player 1 is black, represented by "B".
- *Player 2 is red, represented by "R".
- *Rows can be horizontal, vertical, or diagonal.
- *Players take turns dropping chips 1 at a time into 1 of 7 columns of their choice.
- *Chips will drop to the lowest unoccupied space in a column and stack on top of each other.
- *A column can hold a maximum of 6 chips, after which it can no longer be selected.
- *If all columns are filled and neither player has made a row of 4, the game ends in a draw.

Summary of development

I used preexisting codes I found online as guiding sticks in order to make sure the output had a desirable appearance. A victory condition has not been included yet, as that requires functions/arrays/etc. in order to work. When I felt that I had a satisfactory product, I went back over the checklist and tried to implement as many additional features as I could without padding the project out too much.

Pseudocode

```
//This program is a recreation of the game "Connect Four"
//startup menu
//get the user's selection
//determine the user's selection
       //start the game if "a" was selected
                //construct the board
                //continue the game until a player wins
                        //determine player 1's turn
                                //if player 1 chose column (#)...
                                        //determine if column (#) is full
                                                //place a black chip if possible
                        //determine player 2's turn
                                //if player 2 chose column (#)...
                                        //determine if column (#) is full
                                                //place a red chip if possible
                //update and display the board after each turn
                //switch between players after each turn
                //increase the turn count
        //register the user's name if "b" was selected
        //show the list of registered names if "c" was selected
        //exit the program if "d" was selected
        //loop the menu unless "d" is selected
```



Checklist

Topic	Where Line #"s
cout	24- 28, 78, 82, 95, 108, 121, 134, 147, 160, 173, 184, 193, 206, 219, 232, 245, 258, 271, 288, 291, 293, 295, 314, 319, 329, 335, 342, 343, 346
libraries	10-15
variables/literals	20, 60-72, et al.
Identifiers	61-68
Integers	60-69
Characters	20
Strings	316, 331
Floats No Doubles	
Bools	70-72
Sizeof ****	
Variables 7 characters or less	yes
Scope ***** No Global Variables	
Arithmetic operators	
Comments 20%+	yes
Named Constants	yes
Programming Style **** Emulate	yes
cin	29, 84, 320
Math Expression	
Mixing data types ****	
Overflow/Underflow ****	
Type Casting	
Multiple assignment *****	
Formatting output	
Strings	316, 331
Math Library	
Hand tracing *****	
Relational Operators	

if	85
If-else	76-80, et al.
Nesting	22-348, 89-186, et al.
If-else-if	91-104, et al.
Flags *****	
Logical operators	
Validating user input	
Conditional Operator	
Switch	30
Increment/Decrement	101, 307, et al.
While	73
Do-while	22-348
For loop	36, 40, 44, 48, 52, 56
Files input/output both	318-320, 333-335
No breaks in loops *****	