```
1 // TacTacToe solution checker by Chip Henderson for SMU CS7343
 3 #include <pthread.h>
4 #include <stdio.h>
 5 #include <stdlib.h>
 6 #define NUM_THREADS 3
 7
 8 char gameBoard[9];
9 int solutionArray[7]; // consists of row, row, row, col, col, diag
11 void intro() //Welcomes user and sets up the game with user input
12 | {
13
       printf("Welcome to Tac-Tac-toe\n");
       printf("Enter a game board such as X000X000X\n");
14
15
       gets(gameBoard);
16
       printf( "\nYou entered: %s", gameBoard);
17
18 }
19
20 void *rowCheck() // Checks each row for possible winner, updates solution array
21 {
22
       int i = 0;
23
       int j = 0;
24
       for (j = 0; j < 7; j+=3)
25
26
           if (gameBoard[j] == gameBoard[j + 1] && gameBoard[j + 1] == gameBoard[j +
27
   2]) {
28
               solutionArray[i] = gameBoard[j];
29
           }
               else {
30
31
                   solutionArray[i] = 0;
32
               }
33
           i++;
       }
34
35 }
37 void *columnCheck() // Checks each column for possible winner, updates solution
   array
38 | {
39
       int i = 3;
       int j = 0;
40
41
42
       for (j = 0; j < 3; j++)
43
44
           if (gameBoard[j] == gameBoard[j + 3] && gameBoard[j + 3] == gameBoard[j+6])
45
               solutionArray[i] = gameBoard[j];
46
           }
47
               else {
48
                   solutionArray[i] = 0;
49
               }
50
           i++;
51
       }
52 }
54 void *diagCheck() // Checks each diagonal for possible winner, updates solution
   array
55 {
```

localhost:4649/?mode=clike 1/2

localhost:4649/?mode=clike 2/2

108 }