

DisplayBoard.cpp

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1 /*****
2  * PROGRAMMER : Ali Eshghi
3  * STUDENT ID : 1112261
4  * CLASS      : CS1B
5  * SECTION    : MW 7:30pm
6  * Assign #2  : tic-tac-toe game (multi-dimensional arrays)
7  * DUE DATE   : 19 September 2019
8  *****/
9 #include "MyHeader.h"
10
11 /*****
12  * DisplayBoard
13  * This function outputs the tic-tac-toe board including the tokens
14  * played in the proper format (as described below).
15  *
16  *           1       2       3
17  *       [1][1] | [1][2] | [1][3]
18  *           |     |     |
19  * 1       |     |     |
20  *       |     |     |
21  * -----
22  *       [2][1] | [2][2] | [2][3]
23  *           |     |     |
24  * 2       |     |     |
25  *       |     |     |
26  * -----
27  *       [3][1] | [3][2] | [3][3]
28  *           |     |     |
29  * 3       |     |     |
30  *       |     |     |
31  *
32  * * RETURNS: nothing
33  * outputs the current state of the board
34  *****/
35
36 void DisplayBoard(const char boardAr[][COL_SIZE]) // IN -tic tac toe board
37 {
38     /*****
39     * VARIABLES *
40     *****/
41
42     int i; //used in loop
43     int j; //used in loop
44
45     cout << setw(10) << "1" << setw(8) << "2" << setw(9) << " 3\n";
46     for(i=0; i < 3; i++)
47     {
48         cout << setw(7) << "[" << i+1 << "]" << "[1] | " << "[" << i+1;
49         cout << "[2] | " << "[" << i+1 << "[3]" << endl;
50         cout << setw(14) << "|" << setw(9) << "|" << endl;
51
52         for(j = 0; j < 3; j++)
53         {
54             switch(j)
55             {

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56         case 0: cout << i + 1 << setw(9) << boardAr[i][j];
57             cout << setw(4) << "|";
58             break;
59
60         case 1: cout << setw(4) << boardAr[i][j];
61             cout << setw(5) << "|";
62             break;
63
64         case 2: cout << setw(4) << boardAr[i][j] << endl;
65             break;
66
67         default: cout << "ERROR!\n\n";
68     }
69 }
70
71 cout << setw(14) << "|" << setw(10) << "|\n";
72
73 if(i != 2)
74 {
75     cout << setw(32) << "-----\n";
76 }
77 }
78 cout << endl << endl;
79 }
80
81
82
```