COMP1200-CProg - assign 08 Due midnight - Wednesday - April 18 Submit data08c.txt and assign08.c via Blackboard

Before you start writing your program:

Read all of these instructions carefully. Submitting a development plan is not required for this assignment. I suggest that you create one and use it when writing your program.

7			7	1		
	-	•^	n	ın	m	•

Program: assign08.c

Print a report of the Auburn 2012 softball season game results. The result statistics are saved in data08c.txt.

NOTE: Your submitted file(s) MUST be spelled and cased as instructed. [-5 points per file for not doing so.]

-5 points for absence of any

of these required comments at the top

Instructions:

- ☐ Insert comments at the top and throughout each file
 - Include the follow comments at the beginning of this (and ALL) files.

// your name

// assignment number

// date you completed the assignment

// statement(s) about collaboration

// a short narrative about what the file does

• Use your development plan as a guide for comments throughout each file

☐ Use descriptive variable names.

☐ Use Sample Input/Output as a guide.

☐ Indent blocks.

☐ CONSTANT variables

- Define a constant variable with the name of the file; use the variable name as the argument with the **fopen()**.
- Define a constant variable with the maximum number of games. Use a number large enough for a full season including possible post season games, SEC playoff and a bowl game, but not too big. The program should work for any Auburn softball season.

☐ Using the data file

• Protect your program from crashing by making sure that the file opens. If the file doesn't open properly, print an error message and end the program.

□ Input

- Read the Auburn 2011 season game results from data08c.txt
- The first line of the data file will be used a the title of the report.
- There are five (5) columns of data in the data file.
 - 1 month, 2 day, 3 $\,$ conference, 4 opp name, 5 opp runs, 6 AU runs
- Read the data into three (3) integer 2-D arrays and two (2) character arrays. Note the arrays are parallel arrays, i.e., the result information of the first game is in the first row of each of the five arrays; the second game information in the second row of each array, etc.
- Sum runs for each game for all innings into scoreAll.
- Sum runs for each game for innings 1-4 into score4th.
- Your program should work for any number of games in the file. Count the number of games.

□ Count

- Auburn SEC record: wins-losses of just SEC games
- Auburn record for all games: wins-losses
- Auburn record after 4th inning: lead, trail, ties

New commands/terms

2-D arrays
string arrays
read data into 2-D arrays
user-defined functions with
2-D array parameters
print with leading zeros
strcmp()
fgets()

Output

- Refer to the Sample Output for the information that should be included in the report.
 - Use the first line of the data file as the title of the column report.
 - The column report is just SEC games.
 - MULTIPLE printf()s CAN BE USED TO PRINT ONE LINE.
 - Depending on whether Auburn wins or loses, print "W" or "L".
- Print a legend that indentifies the flags in the report.

□ Printing

- Column numbers **right-justified**, i.e., right-aligned
- Print the month, day, and scores in the table with leading zeros.

Sample Input/Output:

THESE ARE PARTIAL LISTS.

2012 A	UBURN	SOFTBALL
--------	-------	----------

data08c.txt	

DATE 03/14 03/14 03/16 03/17 03/18 03/23 03/24 03/25 03/27 03/27	OPPONENT LSU LSU Georgia Georgia Kentucky Kentucky Kentucky Alabama Alabama Ole Miss	SCORE W 2 9 SWC OP-AU L 2 10 HZN 2 12 SOU 2 17 B12 2 12 SOU 2 17 B12 2 19 ATL 2 19 A	JRN SOFTBALL Alabama_State Wright_State Bowling_Green IJFW Appalachian_St Oklahoma_St Virgina_Tech Georgia_Tech Georgia_State Florida_Atlantic Florida_Atlantic Michigan_State Kentucky Kentucky Alabama Alabama							4 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
04/01 04/06	Ole_Miss Tennessee	06-01 L 09-01 L	4 6 SEC 4 7 SEC	4 6 SEC Ten	Tennessee 0 7 0 2 0 0 0 0 0	0 0	0001000000				0 0					
04/07	Tennessee	05-03 L		Tennessee					0 0							
04/08	Tennessee	06-02 L														
Auburn	SEC Record: 4-11															
	il: 11															

Submit via Blackboard:

assign08.c C program file data08c.txt Data file