Your job will be to create a program that uses structures. You will create a structure that holds info about a computer file. It must have a character array (up to 100 characters) to hold the name of the file. An integer to hold the size of the file. It must also hold a character to hold the type of file (D for directory and F for file). Finally it must use a long to hold the timestamp of the last time the file was accessed.

**Part 1**

In your main you should create a pointer to the structure, malloc memory for the structure, and prompt/read in data about your structure. Do NOT print out the file info in the main.

**Part 2**

Write 1 function that prints out the contents of the file structure. Your function should have 1 parameter which is a pointer to the file structure.

Below shows the expected output of running the program. Your output **MUST** match exactly the output below for the input from above.

The output of the print function is the last line of the output. There must be 1 newline at the end of the print function.

|  |
| --- |
| ./a.out  Enter the type:D  Enter the filename:hello  Enter the access time:1234567890  Enter the size:24  Filename hello Size 24 Type[D] Accessed @ 1234567890 |

Submit your program file (structures.c) to the appropriate d2l dropbox.

**REMEMBER: IF YOUR PROGRAM DOES NOT COMPILE WHEN I DOWNLOAD AND COMPILE IT, YOU WILL LOSE ½ OF THE GRADE POSSIBLE.**