

Homework 6

Files to submit: **read_lines.c, read_lines.h**

Time it took Matthew to Complete: **15 mins**

- All programs must compile without warnings when using the -Wall and -Werror options
- Submit only the files requested
 - Do **NOT** submit folders or compressed files such as .zip, .rar, .tar, .targz, etc
- Your program must match the output exactly to receive credit.
 - Make sure that all prompts and output match mine exactly.
 - Easiest way to do this is to copy and paste them
- All input will be valid unless stated otherwise
- Print all real numbers to two decimal places unless otherwise stated
- The examples provided in the prompts do not represent all possible input you can receive.
- All inputs in the examples in the prompt are underlined
 - You don't have to make anything underlined it is just there to help you differentiate between what you are supposed to print and what is being given to your program
- If you have questions please post them on Piazza

Restrictions

- No global variables are allowed
- Your main function may only declare variables, call other functions, and assign variables

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For this assignment you will be writing only a single function: `read_lines`.

Specifications

1. This function has the following definition:
 1. `void read_lines(FILE* fp, char*** lines, int* num_lines).`
2. This function should read all of the lines contained within `fp` and
 1. Set each row of `lines` to contain one line of the file.
 2. Set `num_lines` to be equal to the number of lines that were in the file
3. If the file is empty `lines` should be set to `NULL` and `num_lines` to 0.
4. You only need to submit `read_lines.c` and `read_lines.h`
5. `read_lines.h` must contain at least the definition for `read_lines` but it is perfectly ok if there are more

Example

1. `./read_lines.out` Makefile
 1. `read_lines.out: read_lines.o main.o`
 2. `gcc -g -Wall -Werror -o read_lines.out read_lines.o main.o`
 - 3.
 4. `main.o: main.c read_lines.h`
 5. `gcc -g -Wall -Werror -c -o main.o main.c`
 - 6.
 7. `read_lines.o: r`
 8. `gcc -g -W`
 - 9.
 10. `clean:`
 11. `rm -f *.out *.o`

Assignment Project Exam Help

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