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
- If submitting multiple files on Kodethon place them into a zip folder
 - Make sure to zip the files themselves and **NOT** the directory they are inside.
- 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 values.

For this assignment you will be writing only a single function: read lines.

Specifications

- 1. This function has the following definition:
 - 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: read_lines.c read_lines.c
8. gcc -g -Wall -Werror -c -o read_lines.o read_lines.c
9.
10. clean:
11. rm -f *.out *.o
```