CS16, 10W, H09 (File input) Total Points: 50

Available online at: http://www.cs.ucsb.edu/~pconrad/cs16/10W/homework/H09 (printable PDF)

Accepted: on paper, in LAB (Thursday afternoon Feb 4)

Late Policy: No email submission allowed—and don't "slip it under my door". If you need to make it up, you must do so during office hours, or make an appointment to see me, and you must request this appointment within 48 hours of when the assignment was originally due.

Personal Day/Sick Day policy: Everyone is permitted one "personal day/sick day" when you get to make up a missed homework assignment for free during office hours or via appointment. After that, you may not make up the homework assignment—you can only earn back the points through extra credit opportunities.

(For more details, see the <u>syllabus</u> and the <u>homework policy</u>)						
Name: (2 pts)@umail.ucsb.edu						
Lab Section (5 pts) Circle one:	3pm 4 ₁	pm 5pm	unknown			
(Note: For now, circle the lab section SCHEDULE CONFLICT, please email				est attendance at a different lab section	because of an ACTUAL	
	It may ON	LY be turn	ed in during	on Thursday. LAB on Thursday. Yuesday or Thursday.		
Name of your homework partner	if you work	with another per	rson:			
Read Section 3.6 in your Etter te	xtbook.					
Then answer these questions:						
1. (5 pts) In addition to using read it from a data file.	command lin	ne arguments, a	nd scanf, there is	a third way we can get input into	a program—we can	
According to your textbool	k, when you a	access a data fil	e in a program, y	ou need a special kind of variable	called a file pointer.	
What is the line of C code	that you wou	ld need to write	to declare a file	pointer with the variable name ea	arthquakeData?	
2. (5 pts) There is a function	you must call	I to associate the	e variable with a	file on the disk.		
Suppose you want to read	data from a f	ïle called "eart	thquakes.dat"			
What line of code would v	on write to as	ssociate the file	"earthquakes.dat	" with the file pointer you declare	d in the previous	

Please turn over for questions to answer

problem?

Continued from other side

3.	The answer to the previous problem involved a certain function. When you call that function, you sometimes get back a value of NULL. a. (5 pts) What does it mean when that happens?
	b. (5 pts) Why is it important to check for that by saying something like if (earthquakeData == NULL) after calling that function?
4.	There are various ways to read data from the file after it is opened. One of them is a function discussed in section 3.6. a. (5 pts) What is the name of that function?
	 b. (5 pts) Write a function call that invokes this function to read a single number from earthquakeData into the variable magnitude. Assume that magnitude is of type double.
5.	(10 pts) What function call should your program make when it is finished with the data file associated with the variable earthquakeData?
nd o	of H09