Marks for this submission: 1.00/1.00. We will use python to help us understand typical earthquake aftershock patterns today. Take a minute to read some basic information about this topic on Wikipedia: https://en.wikipedia.org/wiki/Aftershock Question 9 Correct What is the definition of an aftershock? 1.00 points out of 1.00 Answer: In seismology, an aftershock is a smaller earthquake that follows a larger earthquake, in the same area of the main shock, caused as the displaced crust adjusts to the effects of the main shock. Flag question Marks for this submission: 1.00/1.00. Which of the following describe how the rate of aftershocks decrease over time? Correct Select one: 1.00 points out of a. Omori's Law Flag question b. Stochastic Law c. Båth's law d. Gutenberg–Richter law

Check

Correct Marks for this submission: 1.00/1.00. The equation for Utsu's modified version of Omori's law is written as: Not answered  $n(t) = k / (c + t)^p$ 0.67 points out of Using the information from Wikipedia, match the variables with their descriptions: 1.00 Flag question constant defining the initial decay Choose... ∨ constant defining the overall rate Choose... ∨ rate of earthquakes at a given time Choose... V time variable Choose... ∨ constant which modifies the overall decay rate 
Choose... 

✓ Check Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**. Question 12 The c constant is typically 10-60 sec. Looking at the equation, which of the following is true? Correct Select one: 0.33 points out of 1.00 a. it will affect the decay rate during the time after the mainshock from seconds to days Flag question  $^{\odot}$  b. it will affect the decay rate during the time after the mainshock from seconds to minutes  $\checkmark$ c. it will affect the decay rate during the time after the mainshock for less than a few seconds only d. it will affect the decay rate during the time after the mainshock from seconds to months Check Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Question 13 The p constant typically falls in the range 0.7–1.5. However, if you consider the original Omori's law (not the one modified by Utsu), what is the most common p value? Correct Answer: 1.00 points out of Check Flag question Marks for this submission: 1.00/1.00. Let's consider an aftershock sequence that can be fit with these values: k = 20 earthquakes, c = 30 seconds, and p = 1. Testing your math skills, what would be the rate of earthquakes per day at 2 days after the main shock? Question 14 Correct Answer: 9.99826419136 0.33 points out of 1.00 Flag question Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00. Question 15 Go ahead and open a new file called omori.py on the Linux command line to put your python commands in. On the command line, type in gedit omori.py & to get started. Once you open this file, add a comment on the first line that explains what this script is for like this: Correct # Omori Law calculator 1.00 points out of To make this program adaptable for different Omori law values, we need to create variables for our values for k, c, and p. You can read about setting variables in Python at these websites or use your own web search: 1.00 https://www.openbookproject.net/thinkcs/python/english2e/ch02.html Flag question https://www.learnpython.org/en/Variables\_and\_Types Based on the information you reviewed, which of the following would follow the python syntax for setting the k value? Select one: a. k:20 b. set k= 20; c. set k= 20 d. set k:20; e. k = 20; f. k = 20 Correct. Add this line to your omori.py file in gedit. Check Correct Marks for this submission: 1.00/1.00. Next you need to add a similar line to set the p variable. What command would accomplish this? Question 16 Correct Select one: 1.00 points out of 1.00 a. set p = 20 Flag question b. p = 1.5 c. p = 1 Correct. Add this line to your omori.py file in gedit. d. set p = 1 e. p = 20 • f. set p = 1.5Check Correct Marks for this submission: 1.00/1.00. Based on the correct answer from the previous question and what you read on the pages about setting variables, what type of variable was p set to be? Question 17 Correct Select one: 1.00 points out of 1.00 a. integer Flag question b. string c. complex d. whole number e. floating point Check Correct Marks for this submission: 1.00/1.00. Now we need to add a line to set the c value. We will set up the equation to produce the rate of earthquakes per day, so if the c value is 30 seconds, we need to convert that to a fraction of a day. Which of the following would accomplish this? Question 18 Select one: 0.00 points out of 1.00 a. c = 30.0\*3600/24 Flag question b. c = 3600\*24\*30.0 c. c = 30.0/3600\*24 d. c = 3600\*24/30.0 e. c = 30.0/3600/24 ✓ Correct. Add this line to your omori.py file in gedit. f. c = 3600/24/30.0 Check Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.00/1.00**. Question 19 Based on the correct answer from the previous question and what you read on the pages about setting variables, what type of variable was c set to be? Select one: 1.00 points out of 1.00 a. integer Flag question b. complex c. whole number d. floating point e. string Check Correct Marks for this submission: 1.00/1.00. Now you should add a line to print the value of the variable c while the program is running. Which of the following would accomplish this? Question 20 Select one: 1.00 points out of 1.00 ) а. с Flag question b. echo \$c c. print (c) d. print ("c") e. print c f. print "c" Check Correct Marks for this submission: 1.00/1.00. We will try to run everything we can through Python, so go ahead and add the appropriate command from the previous question to your script. Now on the Linux command line you can run your script with this command: Question 21 Correct (iris) jupyter-[your username]:~/python/aftershocks> python omori.py

What number does it output for the value of c?

1.00 points out of	Answer: 0.00034722222222224 ✓
1.00 Flag question	Check
9 4	Correct
	Marks for this submission: 1.00/1.00.
Question <b>22</b>	Before we move on, you should comment out the line "print (c)" from your script as we do not want the output of print (c) in the next part of our script. Remember you can comment out a line by adding a # in front of the line.
Correct	Next we will add a loop to the program to calculate the rate of earthquakes at different time steps. Loops are a very useful part of communing for scientists to automate repetitive tasks and a common part of scientific programs. There are several choices for commands in python for constructing a loop.
1.00 points out of 1.00	can read more about these choices at these websites:  https://www.openbookproject.net/thinkcs/python/english2e/ch06.html
Flag question	https://www.learnpython.org/en/Loops Which of the following commands can be used to begin a loop in a Python program?
	Select one or more:
	✓ a. for ✓ 1 of 2 correct answers
	b. loop
	<ul> <li>✓ c. while ✓ 1 of 2 correct answers</li> <li>□ d. if</li> </ul>
	e. break
	☐ f. continue
	Check
	Correct Marks for this submission: 1.00/1.00.
Question 23	We will set up a loop to run from 0 to 40 days using a variable t. Which of the following pair of commands use the right format to accomplish this?
Correct 1.00 points out of	Select one:
1.00 Flag question	<ul> <li>a. t = 0</li> <li>while t &lt;= 40:          ✓ Correct. Add these two lines to your omori.py file in gedit.</li> </ul>
	O b. ts = [0 40] for t in ts:
	o.t=[040]
	for t:  O d. ts = [0 40]
	while t in ts:
	e. t = [ 0 40 ] while t:
	O f. t = 0 for t <= 40:
	Check
	Correct
	Marks for this submission: 1.00/1.00.
Question 24 Correct	Next we will need to add a line to calculate the rate of earthquakes per day using the Omori equation. Which of the following would accomplish this in Python?
1.00 points out of 1.00	Select one: $\bigcirc$ a. $n(t) = k / (c + t) ^ p$
Flag question	<ul> <li>b. n = k / (c + t) ** p ✓ Correct. You will add this line to your omori.py file in gedit after the next question.</li> </ul>
	O c. n = k/c + t ** p
	O d. $n(t) = k / (c + t)^* p$ O e. $n(t) = k / c + t p$
	$\bigcirc f. n = k/c + t^p$
	$ g. n = k / (c + t)^{n} p $
	O h. n(t) = k / c + t ** p  Check
	Correct
	Marks for this submission: 1.00/1.00.
Question 25 Correct	You need to add the answer to the previous question to your omori.py file in gedit, but we have to be careful about how we add lines that are within a loop. Python is really picky about how you indent the commands in your program because it uses the indentation to know whether the commands are part of the loop or not. You can read more about these choices at these websites:
1.00 points out of 1.00	https://www.learnpython.org/en/Hello%2C_World%21 https://docs.python.org/3/tutorial/introduction.html#first-steps-towards-programming
Flag question	How many spaces should you put in front of the answer to the previous question when adding it to your program?
	Answer: 4
	Check
	Correct. Add the four spaces and then n = k / (c + t) ** p to your omori.py file in gedit.  Correct
	Marks for this submission: 1.00/1.00.
Question <b>26</b> Correct	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?
	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:
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Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print("t,n")  b. print("t,n")  c. print("n,t")
Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print(t,n)  Correct. Add this line to your omori.py file in gedit. Make sure there are 4 spaces in front of the command so that python knows it is part of the loop commands.  b. print("t,n")  c. print("n,t")  d. print t,n
Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print("t,n")  b. print("t,n")  c. print("n,t")
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Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print(t,n) ✓ Correct. Add this line to your omori.py file in gedit. Make sure there are 4 spaces in front of the command so that python knows it is part of the loop commands.  b. print("t,n")  c. print("n,t")  d. print t,n  e. print (n t)  f. print "t,n"
Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print(",n,")  c. print("n,t")  d. print 't,n"  e. print (n t)  f. print "u,n"  g. print "n,t"  h. print n,t
Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print(t,n)   Correct. Add this line to your omori.py file in gedit. Make sure there are 4 spaces in front of the command so that python knows it is part of the loop commands.  b. print("t.n")  d. print t,n  e. print "n,t"  f. print "n,t"  h. print n,t  i. print (t,n)
Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print(tn.*) ✓ Correct. Add this line to your omori.py file in gedit. Make sure there are 4 spaces in front of the command so that python knows it is part of the loop commands.  b. print('tn.*)  c. print('n,*)  d. print 'tn."  g. print 'tn."  h. print (tn)  j. print (tn)  j. print (tn)  Correct  Correct
Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print(tn,tr) \( \times \) Correct. Add this line to your omori, by file in gedit. Make sure there are 4 spaces in front of the command so that python knows it is part of the loop commands.  b. print('tn,tr')  d. print 'tn e. print (n,t)  g. print 'n,t h. print (t,n) j. print (n,t)  Check
Correct 1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. print(tn.*) ✓ Correct. Add this line to your omori.py file in gedit. Make sure there are 4 spaces in front of the command so that python knows it is part of the loop commands.  b. print('tn.*)  c. print('n,*)  d. print 'tn."  g. print 'tn."  h. print (tn)  j. print (tn)  j. print (tn)  Correct  Correct
Correct  1.00 points out of 1.00  Flag question  Question 27  Correct	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a. a print(t), √ Correct. Add this line to your omori, by file in gedit. Make sure there are 4 spaces in front of the command so that python knows it is part of the loop commands.  b. brint(t, tt)  d. print(t, tt)  f. print t, tt  g. print t, tt  j. print (t, tt)  j. print (t, tt)  h. print (t, tt)  Additional to the submission: 1.001.00.
Correct  1.00 points out of 1.00  Flag question  Question 27  Correct  1.00 points out of 1.00	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment. I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:  a print(trn)  Correct. Add this line to your omorit, yr line in gedit. Make sure there are 4 spaces in front of the command so that python knows it is part of the loop commands.  b print(trn)  c print 't.n' c print (tn) correct  Marks for this submession: 1,00/1.00.  The last command we need inside the loop is a line that will increment the time variable. I would like the time step to be half of a day for this assignment. Which of the following lines would accomplish this?
Correct  1.00 points out of 1.00  Flag question  Question 27  Correct	Next you need to add a command inside the loop to output the earthquake rate at each time step. To help in making a plot of these values later in this assignment, I would recommend that you output the time and then the rate. Which of these commands would accomplish this in Python?  Select one:    a print(th_t')
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Correct 1.00 points out of 1.00  Flag question  Question 27  Correct 1.00 points out of 1.00  Flag question  Question 28  Correct 1.00 points out of 1.00  Flag question  Question 30  Correct 1.00 points out of 1.00  Flag question  Flag question	State of the control
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Correct 1.00 points out of 1.00  Flag question  Question 27  Correct 1.00 points out of 1.00  Flag question  Question 28  Correct 1.00 points out of 1.00  Flag question  Question 30  Correct 1.00 points out of 1.00  Flag question  Question 30  Correct 1.00 points out of 1.00  Flag question	State of the control

Correct

	Marks for this submission: 1.00/1.00.
Question 32	Using the output, what is the rate of earthquakes per day at 2 days after the mainshock?
Correct 1.00 points out of	Answer: 9.99826419024475 ✓
1.00 Flag question	Check
riag question	Correct
	Marks for this submission: 1.00/1.00.
Question 33 Correct	Using the output, what is the rate of earthquakes per day at 1 day after the mainshock?
1.00 points out of	Answer: 19.993057965984033 ✓
1.00 Flag question	Check
	Correct
	Marks for this submission: 1.00/1.00.
0.4	
Question 34 Correct	Using the output, what is the rate of earthquakes per day at 12 hours after the mainshock?
1.00 points out of 1.00	Answer: 39.97224149895905 ✓
Flag question	Check
	Correct Marks for this submission: 1.00/1.00.
	Warks for this submission. 1.00/1.00.
Question 35	Next you will make a plot of this output. You should save the output of your program to a file. Which of the following will correctly accomplish this? Select all that apply.
Correct	
1.00 points out of 1.00	Select one:  a. python omori.py   omori.xy
Flag question	b. python omori.py >! omori.xy      ✓ Correct! Go ahead and run this command now.
	○ c. python omori.xy >! omori.py
	O d. python omori.xy   omori.py
	Check
	Correct Marks for this submission: 1.00/1.00.
	Marke for the daphilosion. 1.00/1.00.
Question <b>36</b>	To make sure the command from the previous question worked correctly, how many lines are in the output file?
Correct	
0.67 points out of 1.00	Answer: 81 ✓ Check
Flag question	
	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives <b>0.67/1.00</b> .
Question 37	Next I would like you plot the output file using GMT. Which of the following would be needed for the full GMT command?
Correct 0.71 points out of	Select one or more:
1.00 Flag question	✓ a. omori.xy ✓ 1 of 6 correct answers
r lag question	□ bR0/10/0/10 □ cBa1f10
	☐ d. plot
	✓ e. gmt psxy          ✓ 1 of 6 correct answers
	✓ fJX5 ✓ 1 of 6 correct answers
	<ul> <li>□ g. omori.py</li> <li>☑ hR0/40/0/40 </li> <li>✓ 1 of 6 correct answers</li> </ul>
	iJM5
	☑ j. >! omori.ps ✓ 1 of 6 correct answers
	✓ I of 6 correct answers
	Check
	Now go ahead and run the full command: gmt psxy omori.xy -R0/40/0/40 -JX5 -Ba10f1 >! omori.ps
	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives <b>0.71/1.00</b> .
Question 38	Which command would you need to view the graphical output?
Correct 1.00 points out of	Answer: gv omori.ps &
1.00	Check
Flag question	Correct
	Marks for this submission: 1.00/1.00.
Question 39 Correct	Once you view the plot, how would you describe the line that is plotted?
0.00 points out of	Select one:
1.00 Flag question	a. The rate of earthquakes decays very rapidly.      b. The rate of earthquakes decays very gradually over the first few weeks and then is constant after a month.
	c. The rate of earthquakes decays very rapidly over the first few days and then is constant after a week.
	O d. The rate of earthquakes decays very gradually.
	e. The rate of earthquakes decays very rapidly over the first few weeks and then is gradual after a month.
	of. The rate of earthquakes decays very gradually over the first few days and then is constant after a week.
	<ul> <li>g. The rate of earthquakes decays very gradually over the first few days and then much more rapidly after a week.</li> <li> <ul> <li>n. The rate of earthquakes decays very rapidly over the first few days and then much more gradually after a week.</li> </ul> </li> </ul>
	i. The rate of earthquakes decays very rapidly over the first few weeks and then is constant after a month.
	i. The rate of earthquakes decays very gradually over the first few days and then much more rapidly after a month.
	Chack

Finish review

Correct
Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.00/1.00**.