

CPSC 217 Exercise 7: Counting... 1... 2... 3...

Due: Tuesday, December 1, 2026, at 11:00pm

This exercise may be completed individually or as part of a group. If the exercise is completed as a group, then all members of the group are expected to make a meaningful contribution to the solution.

Task:

Write a program that asks the user for the name of a file, opens the file, counts the number of comma-separated values in it, and reports the result to the user. Your program does not need to do any error checking – you can assume that the file your program is asked to open will exist, and that the values within it will be comma separated. Ensure that your program closes the file once it is done analyzing its contents. Your input prompts and output messages should match those shown in the sample input and output below.

Note that when a line contains multiple values, they will be separated by commas, but values that appear on different lines will be separated by newline characters. The last item on a line is **not** followed by a comma, and as a result, a line that has only one value on it will not have a comma anywhere on the line.

Sample Input and Output:

Run #1

Enter the name of a file: test1.txt

That file contains 6 values.

Run #2

Enter the name of a file: test2.txt

That file contains 10 values.

Run #3

Enter the name of a file: test3.txt

That file contains 24 values.

Grading:

Your program will be graded by testing it with two different sets of input, which may be different from the examples shown above.

Submission Instructions:

Submit your solution as a Python source code file electronically to the Exercise 7 drop box in D2L. You do **not** need to submit a paper copy of your solution. If you choose to complete this exercise as part of group, then each member of the group must submit a copy of the exercise using D2L.