

DSC 430: Python Programming
Assignment 0202: Stem-and-Leaf Implementation

Implement your stem-and-leaf plot design from Assignment 0201: Stem-and-Leaf Design.

Record a three minute video in which you present your design. Specifically, answer the following questions:

- How is your main function organized?
- How does your program automatically determine how many digits the stems and leaves should have?
- Show the loop(s) where you print out the stem-and-leaf plot and briefly explain how it works.
- The data files provided are very “friendly”. How would you design a datafile to confound your program?

Submission: Submit a single .py file containing all the code to the D2L. Do not zip or archive the file. Your code must include comments at the top including your name, date, video link, and the honor statement, “I have not given or received any unauthorized assistance on this assignment.” Each function must include a docstring and be commented appropriately.

You should know from the prereq how to read a file. In case you forgot, here is a simple example.

```
filename = "C:/Users/yada/yada/yada/StemAndLeaf1.txt"

infile = open(filename, "r")
lineList = infile.readlines()
infile.close()

for i in range ( 0, len(lineList) ):
    x = int(lineList[i].strip())
    print (x)
```