

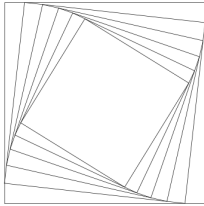
CS2302 - Data Structures

Spring 2020

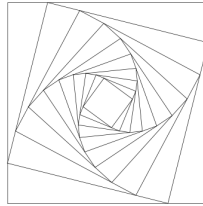
Lab 1

Due Friday, January 31, 2020

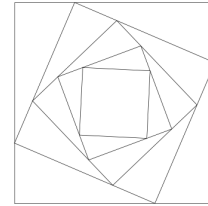
For this lab you will practice using recursion to draw interesting figures. The program *recursive_drawing.py* in the class webpage was used to generate the following figures:



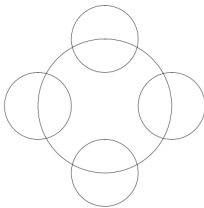
a)



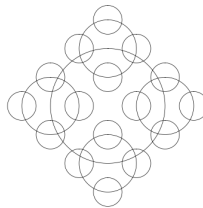
b)



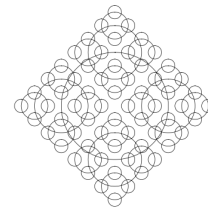
c)



a)



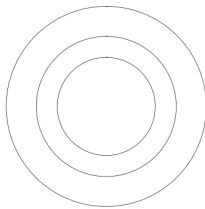
b)



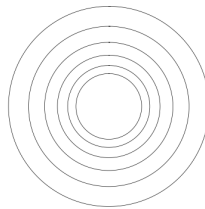
c)

Using *recursive_drawing.py* as model, do the following:

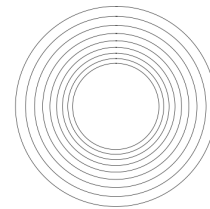
1. Write a recursive function to draw the following figures:



a)

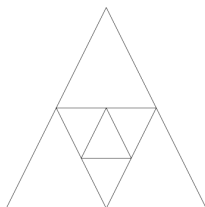


b)

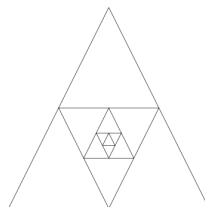


c)

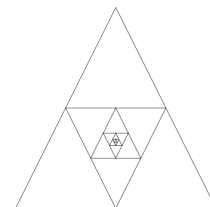
2. Write a recursive function to draw the following figures:



a)

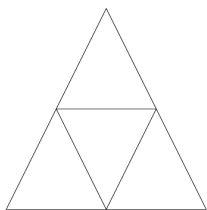


b)

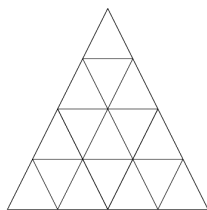


c)

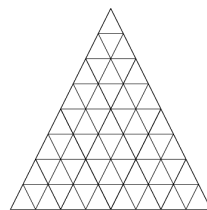
3. Write a recursive function to draw the following figures:



a)

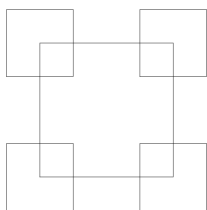


b)

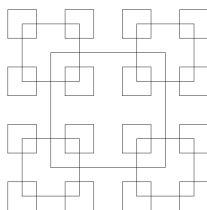


c)

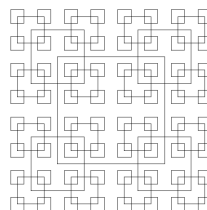
4. Write a recursive function to draw the following figures:



a)



b)



c)

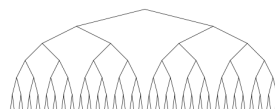
5. Write a recursive function to draw the following figures:



a)

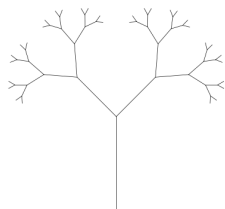


b)

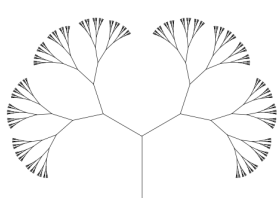


c)

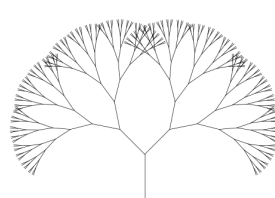
6. Write a recursive function to draw the following figures:



a)



b)



c)

Write a report describing your work, as explained in the syllabus.