

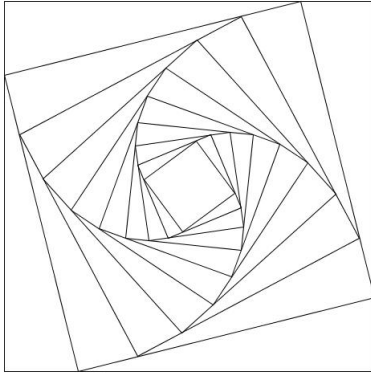
CS2302 - Data Structures

Spring 2019

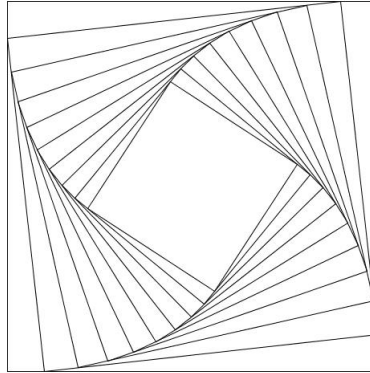
Lab 1

Due Friday, February 8, 2018

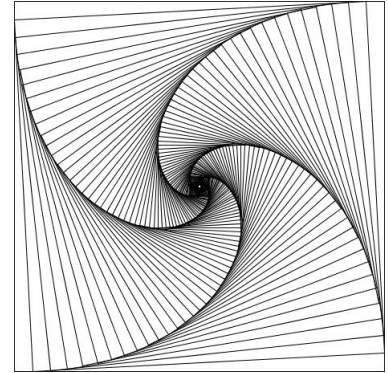
For this lab you will practice using recursion to draw interesting figures. The programs *draw_squares.py* and *draw_circles.py* posted in the class webpage can be used to generate the following figures:



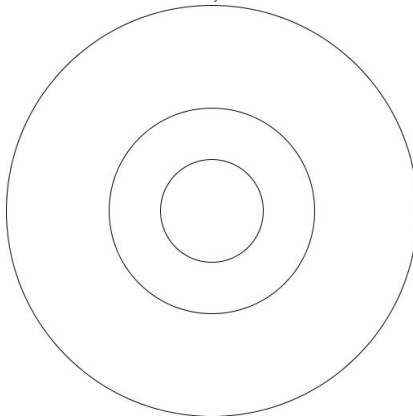
a)



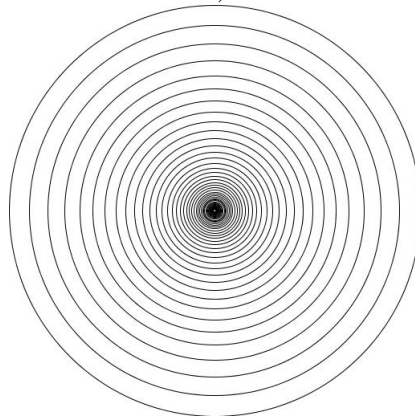
b)



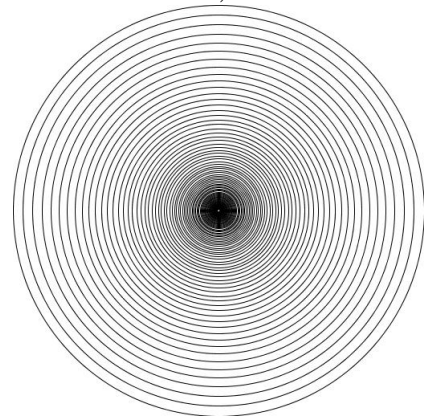
c)



a)



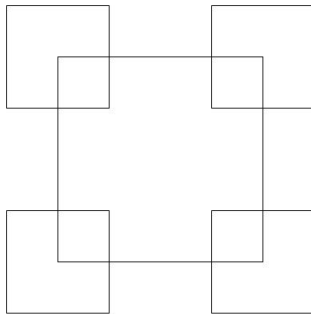
b)



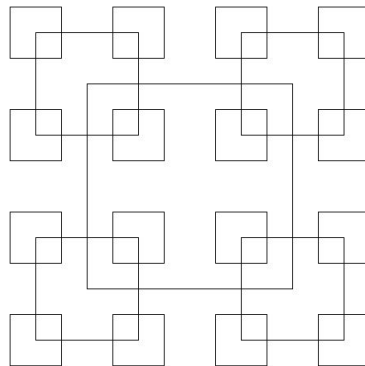
c)

Using *draw_squares.py* and *draw_circles.py* as models, do the following:

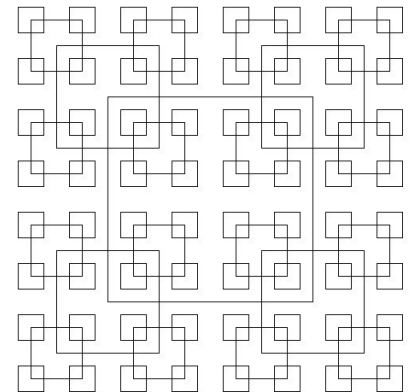
1. Write a recursive method to draw the following figures:



a)

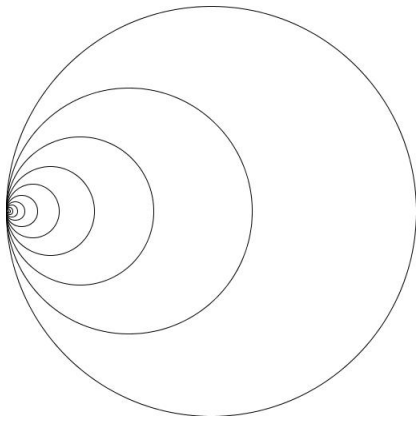


b)

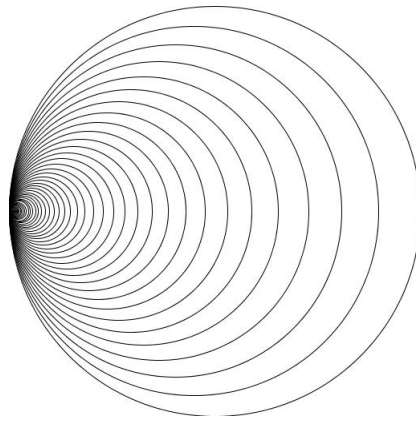


c)

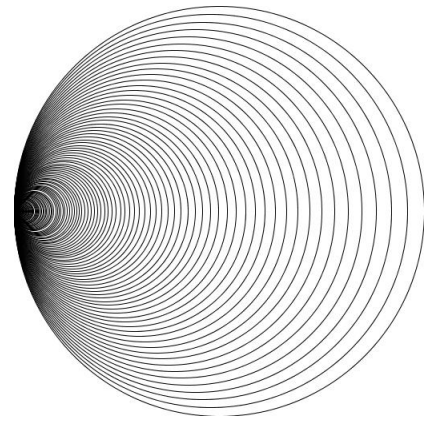
2. Write a recursive method to draw the following figures:



a)

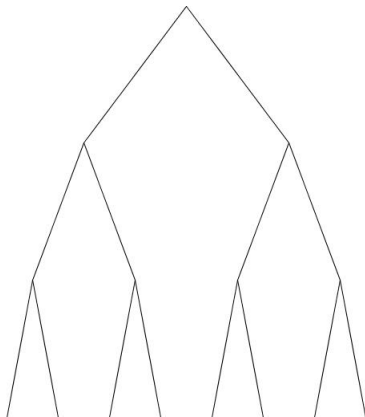


b)

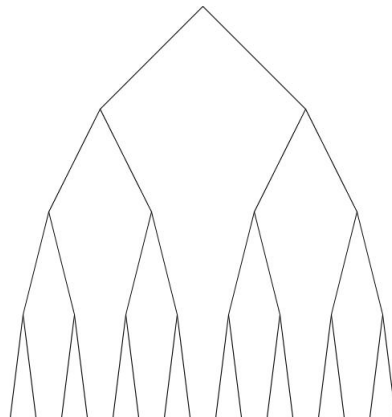


c)

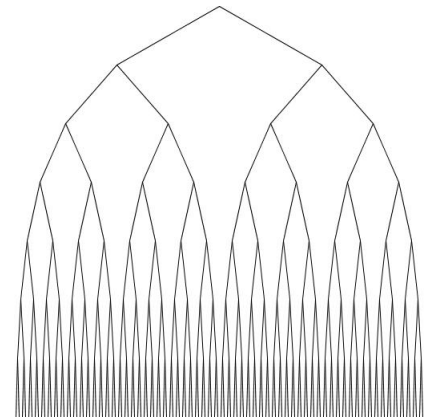
3. Write a recursive method to draw the following figures:



a)

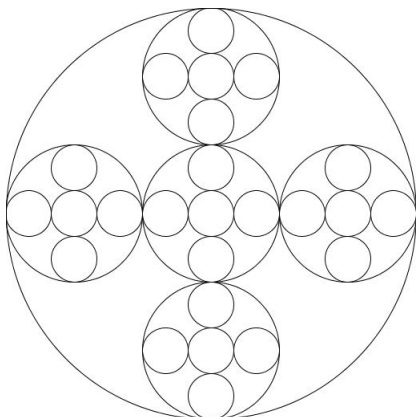


b)

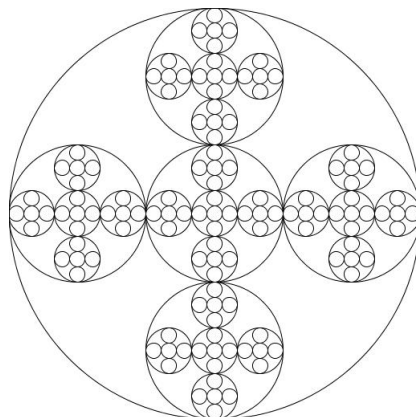


c)

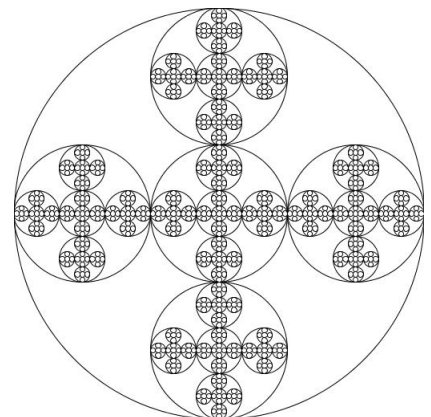
4. Write a recursive method to draw the following figures:



a)



b)



c)

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