

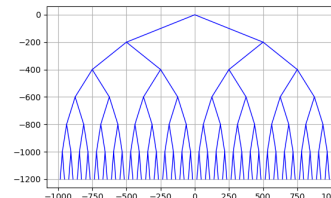
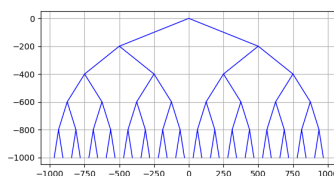
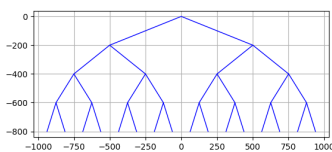
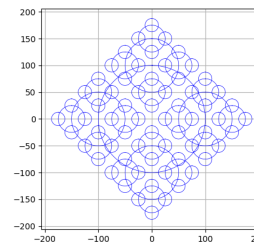
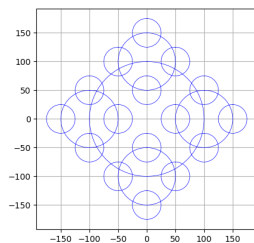
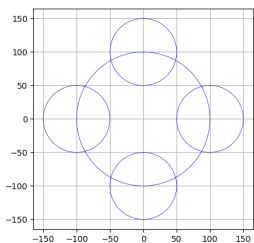
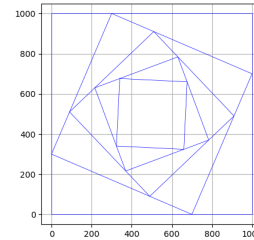
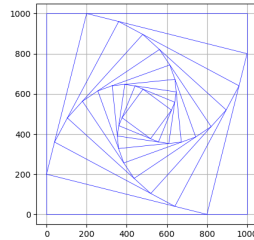
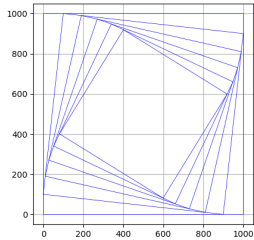
CS2302 - Data Structures

Fall 2020

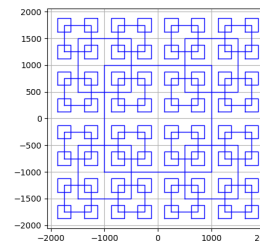
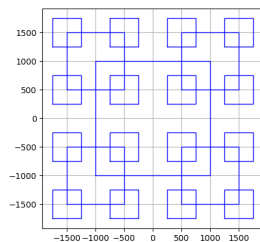
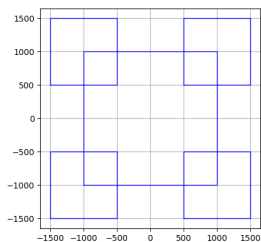
Lab 1

Due Monday, September 14, 2020

1. Modify the `subsetsum` function given in class to return all solutions to the problem given S and g . The function should return a list of lists, with each list representing a solution. For example `mysubsetsum([1,3,4,6,7,9],7)` should return `[[1,6], [3,4], [7]]`.
2. The program `recursive_drawing.py` provided in class was used to generate the figures below. Write non-recursive versions of the functions to perform the same operations using a stack.



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



4. Write a non-recursive function that uses a stack to draw the same figures.

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