

# Python – Sierpinski

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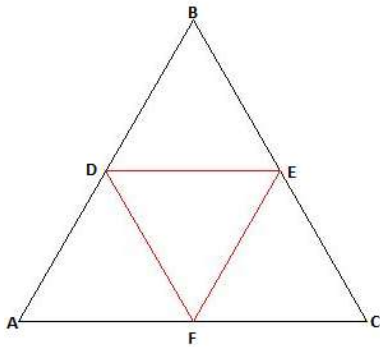
## Purpose

This lab was designed to teach you how to use recursion in Python.

## Description

Recursion is a function that calls itself. Implement the `draw_fractal` function that will draw the fractal as shown below. Instructions have been provided in the lab. The midpoint formula must be used to get the new points. The triangles will become progressively smaller, and the recursive calls stop when the triangles become imperceptible to the human eye.

The large triangle is ABC.



Draw  $\triangle ABC$ . Make recursive calls with  $\triangle ADF$ ,  $\triangle DBE$  and  $\triangle FEC$ . Be diligent and make sure you make sure you invoke the function with the prescribed order(left, middle, and right coordinates).

## Program Shell

lab\_08\_sierpinski.py has been provided for you

## Sample Execution

