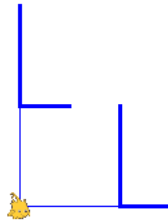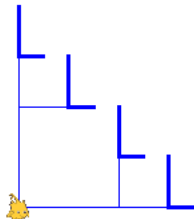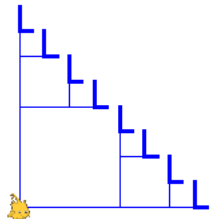# CS10 Online Midterm (Spring 2012, sec 1)

Below are screenshots of the first four iterations of a beautiful fractal. Write code that generates the fractal (you don't have to match our exact placement on the screen as), and name it `FractalYourfirstnameYourlastname.ypr (e.g., FractalBarackObama.ypr)`. Also, save a screenshot of the *fifth* iteration (right-mouse-click on the stage and choose *"save picture of stage..."*) and name the resulting GIF similarly, i.e., `FractalBarackObama.gif`). Submit both on bspace under the "midterm" assignment.

Though this may look daunting at first, it really isn't that bad. Remember, every fractal has a base case (`n = 0`) and recursive case. We've drawn the fractal with bold lines to indicate the parts of the drawing that will recurse; the other parts of the drawing at `n = 1` are just lines. (You don't have to copy our bold-vs-normal technique.) Look at how the single **L** shape at `n=0` transforms into the `n=1` case -- this happens for every bold **L** when it goes to the next level.

n = 0

n = 1

n = 2

n = 3