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Assignment #4 Written Report

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I started my design by looking structure of the RecursiveDots and trying Sierpinski Triangle app on the website several times. And then I simply drew a few levels of Sierpinski Triangle on the paper. After that, I realize the location I needed to specify for the Sierpinski Triangle and the how to use the recursion in my program.

Most part of the coding is similar to the RecursiveDots, so I didn’t encounter many major bugs. I tested my program after I finished all the model, views, and controller. I ran the program and used the user interface to see if there was any bug. I used the calculator to check if the number in the text view part is correct; the result was correct. The only bug I encountered is about the button. I forgot to set the minimum level at one; therefore, when I clicked level down at the level one, the level still decrease by one, but the program crashed. I went back to controller class to set the minimum level then the program worked fine.

This assignment gives me another change to work with a MVC project. It helps me to understand more clearly how to designing a MVC project. It also makes me comprehend how to combine MVC and recursion together. The most interesting thing I realized in this assignment is that I can write a public method to make use of the private method with the same name. When the program needs to use the drawSierpinskiTriangle method, it can just pass in a parameter instead of five parameters. That’s really convenient.