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IS2545 DELIVERABLE 4 – PROPERTY-BASED TESTING

<https://github.com/stg34pitt/IS-2545>

Summary and Concerns/Issues

This was a fun deliverable to work on. The difficulty I had was not having a ton of experience with two dimensional arrays. Manipulating them had some issues at first but once I figured it out for the first test I was pretty much able to use the same thought process for the others just with different logical functions.

I did not annotate my code very well but I was actually out of town this week with family and had to code on my Dad’s laptop which was somewhat of a bear in itself. Other than that this was another fun project like Deliverable 3. I do find it much easier to test when using property-based testing because the criteria are very clearly defined. They are much more high-level, such as simply testing to see whether the function was adding an extra element on the end or not. To me that was very easy to grasp.

In terms of how I went about doing this project, I started with the Billify method itself as its own class. I wrote a main method to just mess around with how to use it and to test the math behind it at a very simple level. I then transplanted that class as a method into a JUnit Test case and began writing the tests. It was a lot of rinse and repeat creating the random arrays and billifying them so they really only differ greatly with respect to the logic at the end of each test.