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CS 470 Section 3

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## Functional Programming in Haskell Report

For this assignment, I was able to complete it by the due date. I did not work with anyone for my own assignment, but I did review some code snippets and offer ideas for a few other students who were stuck on particular test cases.

I referred to various posts on StackOverflow to learn more about how parts of the Haskell language works. For example, I read a post to learn how you can use an accumulator variable with the foldr function [1] and I read about the different kinds of exponent operators [2]. On the Haskell Wiki, I read about tail recursion [3] and folds [4]. For the pipe function, I consulted the Haskell Wiki again to see if there was some kind of operator for applying a function, and I read about the \$ operator and the . operator. Apart from referring to these sources to learn more, I did not take any code directly from the internet.

I learned a lot about Haskell and functional programming in general during this assignment. I thought most of it was fairly straightforward, except for the functions like fixpointL which had confusing examples. The biggest issue I had during the lab was getting the autograder to build, but even then it was fairly simple for me compared to the errors that other students got. After installing haskell-stack, it built properly.

- [1] https://stackoverflow.com/questions/27074092/accumulator-in-foldr
- [2] https://stackoverflow.com/questions/6400568/exponentiation-in-haskell
- [3] https://wiki.haskell.org/Tail\_recursion
- [4] https://wiki.haskell.org/Fold