

## PLC: Workout 2 [80 points]

Due date: Friday, February 4th by midnight

### About This Homework

You will solve programming problems about higher-order functions, in Haskell.

### How to Turn In Your Solution

Follow this link to create your repo on Github Classrooms for workout2:

<https://classroom.github.com/a/I1PNFaFG>

If you work with a partner, please add to your repo a file called `partners.txt`, and list your name and your partner's name there. Both of you should submit your solution: each partner pushes it to their github repo.

### How To Get Help

You can post questions in the Discussions section of ICON.

You are also welcome to come to our office hours. See the course's Google Calendar, linked from the github page for the class, for times and Zoom links for office hours. You can also find these on the "Zoom links, office hours" page under "Pages" on ICON:

<https://uiowa.instructure.com/courses/179776/pages/office-hours>

## 1 Reading

Read Chapter 7 of the required book, *Programming in Haskell*, by Graham Hutton. (We will come back to Chapters 4-6 later.)

## 2 Haskell exercises [80 points]

Complete the 16 exercises in `Exercises.hs`. Each is worth 5 points. There are tests in `PublicTests.hs` you can use to help make sure your code is correct. When you push to github, tests will run to check that `Exercises` compiles and that your public tests pass. I have modified the testing code so that if some of your tests fail or your code has undefined in it, all the tests will still be run. As for `workout1`, code that does not type-check will not receive partial credit, so make sure that your code at least type-checks with Haskell (in other words, Haskell does not print type errors when you load the file).