

PLC: Workout 2 [90 points]

Due date: Wednesday, February 5th by midnight

About This Homework

You will get practice writing recursive functions over lists and other datatypes.

How to Turn In Your Solution

Please submit your solution via ICON. The required file for this assignment is:

- `Exercises.hs`

Please use exactly the file names we are requesting. We will require you to resubmit your homework with a 5-point penalty if the names are not exactly as we are requesting. This is for purposes of grading scripts. It is ok if ICON adds a number to your file name on multiple submission (which is allowed up to the deadline).

Partners Allowed

You may work alone or with one partner. You should both turn in your solution to the assignment, which we expect will be the same (but is allowed to be different, if you worked together but then you decided to add to your solution – or whatever the scenario). Also, you need to turn in a file called `partner.txt` which lists your partner's Hawkid. This will let us know that you worked with that person (lest we incorrectly think you plagiarized another student's similar submission).

How To Get Help

You can post questions in the `workouts` section on Piazza.

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 the locations and times for office hours.

1 Reading

Read Chapters 3 (if you haven't yet), 4, 6, and 7 of the required book, *Programming in Haskell*, by Graham Hutton.

1.1 Exercises [90 points]

Complete the exercises in `Exercises.hs`. There are tests in `PublicTests.hs` you can use to help make sure your code is correct. I suggest uncommenting the tests for the problems one at a time, after you solve the problem for that test.