

Lab 8: Advanced Functions

CSE/IT 107

NMT Computer Science

“All thought is a kind of computation.”

— D. Hobbes

“Vague and nebulous is the beginning of all things, but not their end.”

— K. Gibran

“It [programming] is the only job I can think of where I get to be both an engineer and artist. There’s an incredible, rigorous, technical element to it, which I like because you have to do very precise thinking. On the other hand, it has a wildly creative side where the boundaries of imagination are the only real limitation.”

— A. Hertzfeld

1 Introduction

2 Advanced Functions

2.1 Default Arguments

2.2 Recursion

2.3 Lambda Functions

3 Iterables

3.1 Map

3.2 Reduce

4 Exercises

Boilerplate

Remember that this lab *must* use the boilerplate syntax introduced in Lab 5, including the review exercises.

`exercise.py`

5 Submitting

We will be adding more exercises later. We have just not had the time to finish them. You will get an email about them.

Files to submit:

- exercise.py (Section 4)

You may submit your code as either a tarball (instructions below) or as a .zip file. Either one should contain all files used in the exercises for this lab. The submitted file should be named either `cse107_firstname_lastname_lab8.zip` or `cse107_firstname_lastname_lab8.tar.gz` depending on which method you used.

For Windows, use a tool you like to create a .zip file. The TCC computers should have 7z installed. For Linux, look at lab 1 for instructions on how to create a tarball or use the “Archive Manager” graphical tool.

Upload your tarball or .zip file to Canvas.