

CPS109 Lab 2 – Spring 2024

Decision Making, Sequences, Simple Iteration, Unit Testing

Learning Objectives

In this lab you will continue practicing writing functions and making decisions in Python. Last lab, you practiced writing functions directly in the Codingbat IDE. In this lab, you'll be writing functions in your own source file and running unit tests, provided by me, that will mark your code automatically. This will be the style of all future labs, and the style of the midterm and exam. Therefore, it's incredibly important that you become comfortable with this style of submission and testing.

Before the lab:

Make sure you understand all the course material up to and including conditions, branching with if/else, sequence operations, and looping. Additionally, make sure you understand how to use your chosen IDE – creating source files, saving them, running them, etc. Codingbat served us well last lab, but we're ready to say goodbye to its comfortable walled garden and venture out on our own into the real world.

During the lab:

Included with this lab description are two Python file: **lab2_funcs.py** and **lab2_tests.py**.

lab2_funcs.py contains a series of function signatures, each with a 'pass' statement instead of a return value. For each function, there is a description of what the function should do. Your job is to fill in the functions with your own code, so that they accomplish the task that is described.

lab2_tests.py contains unit tests for each function. You will run this file, but do NOT modify it. As you work on your functions, run the unit tests periodically to see how you're doing. Your TA can help you with this during the lab.

Submission

When your code passes all the unit tests, submit your completed lab2_funcs.py on D2L under Lab #2. Do not submit the tests file. A fresh copy will be used when marking.