

L435/L555
Fall 2016

In-class Exercises 8

- 1) Write a program that reads in a text and provides the following functionality: The user can 1) ask to see all the words of a certain length, 2) ask for all words with a certain suffix, and 3) ask to see a specified word and all the words that have this word as a neighbor (preceding or following word). The program should consist of the following functions:
 - a. A function that reads in the text (called only once);
 - b. One function for each of the tasks above; and
 - c. Functions that fill the required data structures and access them.

We'll ignore file preprocessing (e.g., tokenization) for now, so you can use the file *wordlist100.txt* to test your program.

- 2) Write a program that uses a class for courses taught at IU, which contains information about: the course title, course times, number and names of enrolled students, location, and special requirements. The user should be able to set the course title, course times, and location and add students to the course, and the requirements. All of these types of information should also be accessible via methods.
- 3) Redo #1 with classes and methods instead of functions. Specifically, create a `Word` class and a `Text` class and write methods for the functionality in #1.