Exam 2: Study guide

Exam 2 for CE 311K is a one-hour open-internet exam. The exam questions will be determined such that they satisfy a subset of the objectives listed here.

Exam 1 will cover:

- Errors and functions

- Homeworks 02 through 03 (Errors, functions)

- Labs 02 to 03 (Errors, functions)

To perform successfully on Exam II, you should be able to:

1. Determine data types and outputs during casting operations. Please note only Python standard data types (`str`, `int`, `float`, `bool`) will be covered. Numpy data types are not included (for e.g., `np.float16` and others)

2. Evaluate relative and absolute error(s) for a given program and develop a suitable termination criteria (`break`) or (`return` in case of a function).

3. Define function with arguments (including default) and multiple return types for a given problem and call (use) the functions in a Python code.

4. Rewrite a given program using functions to make re-use of code as much as possible.

5. Identify and fix errors in passing function arguments and return types.

6. Evaluate the output of a given function(s).

7. Evaluate the value of different variables within and outside the function (scoping)

8. Recursions are **not** part of the exam.

You won't be required to write lengthy code (more than 30 lines). I will not penalise for obvious typos and syntax errors in your code (for e.g., missing : at the end of function definitions), unless that is what is tested.