

CSCI111 2nd Exam Prep

General Topics

Everything up through the 1st midterm

While loops

Object-oriented programming

- Constructors – creating objects
- Calling methods on objects
- Using APIs

Strings

- representation (ASCII)
- operators (getting a character, subsequences, iteration, ...)
- common, useful methods

Functions

- defining your own
- formal, actual parameters (input to function)
- returning output from function
- using functions you've defined
- variable lifetime/scope

Documentation

- appropriate comments for functions

Files

- creating file objects
- reading and writing files
- handling numbers
- common methods

What I expect from you on exam:

- To know the Python/programming terminology
- To know the appropriate Linux commands and how to use them, given a typical situation from lab
- To be able to read a program and describe what the program is doing at a high level in plain English, trace through the program's execution given input (control flow), and say what the program outputs
- To be able to write a program (given an algorithm or creating your own algorithm, given a problem) or class
 - o Syntax must be very close to correct (correct keywords, indentation, special characters, variable naming, operations)
 - o Since it's on paper, there is some leniency—may mark it up somehow if, for example, something should be indented

Suggestions on how to prepare:

- Practice programming on paper and verify program in Python. (Use problems from class or labs.)
- Practice reading through programs, tracing through them, and saying what the output should be
- Read through slides for vocabulary, review questions, and non-problem-solving exercises