CSC108: Introduction to Computer Programming

Lecture 12

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The Exam!

The Exam

- 15 pages (including cover page and 2 aid sheets at the back--> 12 pages)

- The 2 pages aid sheet has the docstrings of functions/methods you *likely* need to use in answering.

- 10 questions, each is 10 marks.

- Examination Aids: No Exam Aids Allowed

The Exam

- What type of questions?

    - Code understanding

    - Working with a complex data type (e.g. lists, tuples, dictionaries)

    - Writing functions

    - Working with files

    - Working with Classes

    - Make your own program

    - Test a function or set of functions

The Exam

- What are testing?

    – Your ability to understand python code

    – Your ability to think through a given code and find the problems

    – Your ability to write python code snippets

    – Your ability to writing a program to solve a specific problem

    – Your understanding of the general concepts we talked about – related to python!: mutability, classes vs. objects, test cases, deep copy vs. shallow copy, etc....

How do you prepare for a programming exam?

- Review the syntax of each programming construct in the language.

- Review the sample answers for the quizzes and midterm and make sure you understand what is the correct answer, why, and why you lost marks.

- Solve past exams.
    - Do not look at the answer first. Sit and try to solve the whole exam in the allocate time.

What topics we have discussed in this course?

- Statements
  - Variables
  - Logical & Mathematical Operators
  - Assignment Statement
  - if/else Statement
  - while loops
- Types & Type conversion
- I/O
  - print
  - input & raw_input
  - Files
- Docstrings & comments

What topics we have discussed in this course?

- Code Organization
  - Functions
  - Variable scope & Namespaces & Mutability
  - Classes & Objects
  - Inheritance
- Data Structures
  - Lists
  - Tuples
  - Dictionary
- Algorithms
  - Searching
  - Sorting
  - Complexity

How you approach the exam?

- Skim through all the questions first (don't bother about the answer while skimming…)

- Start with the questions you feel more comfortable! (common sense ☺)

- Divide your solution to functions with clear name to get max number of points. If you don't want to do that, do one thing in a time in your solution.

- Start by documentation to enable the marker to give you more points (if you deserve it !) and streamline your thinking

- You've got 3 hours & 10 questions !