Midterm Preparation Guide

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Schedule and Logistics

The exam will take place at our regular lecture time on Tuesday, October 19, between 1:30 PM and 2:30 PM. The exam will be conducted in onQ. It is your responsibility to find a location where you can write the exam without being disturbed. The exam is open-book, but you are not permitted to search the internet, consult with anyone, or use an IDE to verify answers during the exam.

Following the School's general guidance on exams in first year and especially gateway courses, **only one question will be displayed at a time and you will not be allowed to go back to previous questions**. I understand that this might not be what you are used to but please consider the open-book and unproctored setting of the exam and the need to ensure fairness and academic integrity.

Please work on your mid-term exam independently. Some built-in mechanisms are used to detect any breach of academic integrity. Any confirmed cases will result in an F on the course.

Format

The exam will consist of

- ☒ 10 multiple-choice/multiple-selection questions.

    For a multiple-choice question, there is one correct answer.

    For a multiple-selection question there may be more than one correct answer. You are required to select all correct answers for full marks on the question. Part marks will be given if you select any incorrect answers or do not select all correct answers.

- ☒ 1 short-answer question. Your answer to this type of question will typically be a few sentences.

- ☒ 1 programming question. Your answer to this type of question will be Python code.

Topics

With the exception of Tkinter, everything we have covered in class, in demo programs, and on assignments is fair game. This includes:

- ⊗ data types and conversions (int, float, string, boolean)
- ⊗ global variables and local variables
- ⊗ boolean expressions
- ⊗ for loops and while loops
- ⊗ lists and list operations
- ⊗ docstrings
- ⊗ testing
- ⊗ string operations
- ⊗ dictionaries
- ⊗ tuples
- ⊗ sets and set operations
- ⊗ opening and processing files
- ⊗ recursion