EECS2030 (Sections E & F) Fall 2024
Guide to Written Test 2

When: Wednesday, November 13 (during your <u>enrolled</u> lab session)	
Where: WSC 105/106/108	
Duration: 40 minutes	
Section E	Section F
8:35 AM to 9:15 AM	4:05 PM to 4:45 PM

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– You **<u>must</u>** attend the test in the room assigned to your enrolled session (LAB 01, LAB 02, or LAB 03).

– There will be two test sessions running on the same day. Before both sessions end, it is considered **a breach of academic integrity** if you communicate about the content of your test with others attending a different test session.

– You **<u>must</u>** take the written test **in-person**: any remote attempt will be marked zero automatically.

– This written test is **strictly** individual: identified collaborations will be reported to Lassonde for **a breach of academic integrity**.

– This written test accounts for **8%** of your course grade.

– Unlike the labs (and the later programming tests), there will be **<u>no</u>** starter project for you to download and import.

– All questions will be answered on the Sections E & F eClass site.

– You will be **<u>solely</u>** responsible for any **loss of time or marks** due to any of the following failing:

  • You have a working EECS account to login into a WSC lab machine.
  • You have a working PPY account to login into the eClass site (subject to Duo Mobile verification).

1 Rules

– You **<u>must</u>** attend the test in the room assigned to your enrolled session (LAB 01, LAB 02, or LAB 03).

– Upon your arrival, please wait **<u>outside</u>** WSC 105/106/108.

  • The test will take place only in these rooms.
  • Once the rooms are set up for the test, you will be allowed for entry.

– You may **<u>only</u>** bring to your seat:

  • Stationary (e.g., pen, pencil, eraser)
  • Sketch paper (blank on both sides).
    You **<u>must</u>** return the sketch paper, signed with your name, at the end of the test.
  • Water bottle
  • A photo ID (e.g., YU card, driver's license, passport)
    Digital YU card (with a photo) on your mobile device is acceptable.
  • Mobile device (for Duo Mobile verification only)
    During the test, always put the device face-down.

– All other personal belongings should be placed in front of the lab room.

– As soon as you are seated, login into a machine (using your EECS account), and then use a web browser (e.g., Firefox) to login into the Sections E & F eClass site (using your PPY account).

  • First complete the quiz on ***academic integrity*** (≈ 1 minute).
  • The written test will be ***opened*** and ***closed*** for submission during the test period.
  • This is a **<u>closed-book</u>** test: use of any internet resources or notes is forbidden.
  • You are **forbidden** to use any programming IDE (e.g., Eclipse) during the test.

– In principle, there will be **<u>no</u>** questions allowed during the test.

  • TAs will **<u>not</u>** answer questions.
  • If really necessary, the instructor will respond to your question, but you may just be advised to read the question(s) again more carefully.

2 Format

– Most ($\geq 70\%$) of the questions will be multiple-choice questions. For examples:

  • A true or false question
  • A question with a **single** correct answer
  • A question with **multiple** correct answers
    e.g., Say you are given 5 answers for the question: 2 of them are correct (and 3 of them are incorrect). Accordingly, for each <u>correct</u> answer you choose will receive a credit of $\frac{100\%}{2} = 50\%$, whereas for each <u>incorrect</u> answer you choose will receive a penalty of $\frac{-100\%}{3} = -33.3\%$.
    Say you chose one <u>correct</u> answer and one <u>incorrect</u> answer, then you would receive $50\% + (-33.3\%) = 16.7\%$ of the full marks. Also, the minimum mark you can receive is 0 (e.g., when you chose one <u>correct</u> answer and two <u>incorrect</u> answers).
    This mechanism is to ensure that one cannot just receive full marks by simply choosing *all* answers.

– There might be written questions requiring you to, e.g.,:

  • Write a fragment of Java code
  • Explain how a given fragment of Java code works at runtime
  • Explain why a given fragment of Java code works

3 Coverage for the Test

– You need **not** study labs for the test.

– All lecture materials (slides, notes, example codes) related to these topics:

- EXCEPTIONS   [all]
- TDD WITH JUNIT
- OBJECT EQUALITY
- CALL BY VALUE
- AGGREGATION AND COMPOSITION
- INHERITANCE   [up to and including Slide 35]

4 Study Tips for the Test

– The test is meant to **test your understanding** of the taught concepts (which is different from a programming test in which you are expected to write Java programs with no syntax or type errors).

– Go through the slides and annotated iPad notes to review the concepts and examples. Re-watch parts of the lecture/tutorial videos if necessary.

– Pay special attention to the logic explained on *tracing Java code* (e.g., use of a boolean variable to control the entrance into and exit from a loop, visualizing object creations and method calls).

– Given a piece of Java code, you are expected to judge:

- If it does **not** compiler, then what **syntax errors** or **type errors**?
- If it compiles:
  - Will an **exception** occur (e.g., `IndexOutOfBoundsException`, `NullPointerException`)?
  - If no exception will occur at <u>runtime</u>, then what **console output** will it produce? Are there any **logical errors** (i.e., the output is not as expected)?

5 Example Questions

– Some example questions have been made available on the Sections E & F eClass site (under the `Practice Written Tests` section). You can attempt this test for as many times as you wish.

This example test will be **closed** for access <u>shortly before</u> the first test session starts (at 8am on the test day).

– It is important to note that:

- These practice questions are meant for familiarizing yourself with the **format** and **workflow** of the test and covering **only** some of the topics required by the actual test: you are expected to study **all** materials as listed in Section 4.
- The level of difficulty of the actual test may be **higher**.