

EECS4315 (Section Z) Winter 2023

Guide to Written Test 2

WHEN: 18:35 – 19:15, Tuesday, March 21

WHERE: William Small Centre (WSC) 108

CHEN-WEI WANG

Last Updated: March 16, 2023

- You **must** take the written test **in-person**: any remote attempt will be marked zero automatically.
 - All questions will be answered on the Section Z eClass site.
 - You will be **solely** 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).
- You are expected to have verified that you are able to complete the EECS and PPY logins prior to the test.** Just find a time gap in WSC and visit there to try your logins.
- This written test is **strictly** individual: identified collaborations will be reported to Lassonde for **a breach of academic honesty**.
 - **You are given 40 minutes** to complete the submission. The time limit is **strict**.
 - This written test accounts for 10% of your course grade.
 - Unlike the assignments (and the later programming tests), there will be **no** starter project for you to download and import.

1 Rules

- Upon your arrival, please wait **outside** WSC 108 (D4/15 on the Keele Campus Map).
 - The test will take place only in the designated room.
 - Once the rooms are set up for the test, you will be allowed for entry (\approx 18:30).
- You may **only** bring to your seat:
 - **A valid photo ID** (e.g., YU card, driver license, health card, passport)
Without a valid photo ID upon checks, you will be denied to continue with the test.
 - Stationary (e.g., pen, pencil, eraser)
 - Sketch paper (blank on both sides).
You will be asked to return the sketch paper at the end of the test.
 - Water bottle
 - 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 Section Z eClass site (using your PPY account).
 - First complete the quiz on *academic integrity* (≈ 1 minute).
 - The written test will be *opened* for submission at **18:35**.
 - This is a **closed-book** test: use of any internet resources or notes is forbidden.
 - You are **forbidden** to use the TLA+ IDE during the test.
 - The written test will be *closed* for submission at **19:15**.
- In principle, there will be **no** questions allowed during the test.
 - TAs will **not** answer questions.
 - If really necessary, Jackie will respond to your question, but you may just be advised to read the question(s) again more carefully.

2 Format

- There might be multiple-choice questions:
 - 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 correct answer you choose will receive a credit of $\frac{100\%}{2} = 50\%$, whereas for each incorrect answer you choose will receive a penalty of $\frac{-100\%}{3} = -33.3\%$.

Say you chose one correct answer and one incorrect 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 correct answer and two incorrect answers).

This mechanism is to ensure that one cannot just receive full/high marks by simply choosing (almost) *all* answers.
- There might be written questions requiring you to, e.g.,:
 - Write texts justifying modelling decisions.

3 Coverage of the Test

- Materials (slides, iPad notes, recordings) related to the following lectures will be covered:
 - Model Checking lecture (from [Slides 28 to 39](#)) [PDF]
Examples (on the **U**, **W**, and **R** operators, and on the natural-language-to-LTL formulations) discussed in class on Thursday, March 16 are **also** covered in this written test.
- Lab2
 - You will **not** be asked to write algorithms in **PlusCal** syntax.
 - But you may be given **PlusCal** fragments and asked questions about them.
- This written test will **not** cover:
 - Lab3

4 Example Questions

- Example questions will be made available on the Section Z eClass site (under the **Written Tests** section) *by the end of Friday, March 17*.

You can attempt these questions for as many times as you wish, but the submission will be **closed** a couple of hours before the actual test starts.

- Please understand that these questions are:
 - meant for familiarizing yourself with the **format** and **workflow** of the test;
 - **not** meant to cover **all** topics required by the actual test (you are expected to study **all** materials as listed in Section 3); and
 - on the easier side (in the actual test, there will be harder questions testing your understanding of the materials).