

CS 245

Fall 2023 Midterm 1

Instructions and Rules

1. You will receive an email from me indicating that the exam is available on Thursday Oct 12. You may begin the exam any time after you receive that email. You must complete the exam prior to midnight; Thursday Oct 12.
2. You have **300** minutes from the time you hit the button to obtain the exam until you return it to me. (The exam is intended to require 80ish minutes to complete.) So you should not have time pressure. Included in this time limit is the time to: obtain the exam; return the exam; have a printer failure, have other electronic mishaps; etc. If something truly dire happens during your 300 minutes, email me immediately.
3. On the first page of your submission clearly write the time you started and the time you completed the exam. Also sign by that time to indicate that you have abided by the honor code. I have a record of the time you obtained the exam and a timestamp of when you emailed it back to me. Still, note these times requested above on your submission.
4. All answers should be written on blank (or lined) sheets of paper. Also, answers may be typed or written using a tablet or computer. I have left lots of blank space if you take the tablet writing approach.
5. **SUBMISSION:** send your answers to gtowell@brynmawr.edu. If you typed everything, or wrote on a tablet, just copy and paste or attach the document. For handwritten answers, take photos or scan. Please ensure legibility. Your submission should be in PDF or some other common format. (I recommend the app CamScanner; but practice with using it before the exam.)
6. Your submission should be an actual file, **NOT** a link to a file on onedrive, dropbox, etc.
7. This is an open almost everything exam. The only restriction is that you may not discuss the questions or your answers with anyone. About the only discussion of the exam that would not violate the honor code would be “I

have not taken it yet”. Even commenting that you thought the exam was hard (or easy) would be a violation.

8. All code given in this test compiles and runs without errors unless clearly indicated.
9. In order to be eligible for as much partial credit as possible, show all of your work for each problem, and clearly indicate your answers. Credit will not be given for illegible answers or for answers that I cannot find.
10. Code that you write should be as close to correct (runnable) as possible. Small syntax errors will not cost you points, but code that is unclear will. You may write your code using VSC; you may compile and test. I do not encourage this (I even discourage doing so as it will tend to slow you down), I just note that it is permitted.
11. If you make an assumption (or are unsure of your interpretation of a question), state that assumption or interpretation clearly. For instance you might say “I assume that the question means that I should do ...”. If I agree that your interpretation is valid, then your answer may be eligible for full credit even if it is not what I intended. Be warned, I may not agree with your interpretation or I may feel that your interpretation is only worth partial credit.
12. While you are taking the exam, you can email me with questions. However, I make no promises about when I will be available (other than that I will respond quickly to email during class time on Oct 12). Generally, you are better off using point 11.
13. You may use any function in Java 19. You may use any function defined in Go or in any standard Go package (no imports from Github, etc). You may use only function defined in the basics of Rust and in the std package (no imports from cargo.io, etc).
14. You may look up, or try to look up, code on the web. However, you are responsible for fully understanding every line of code you submit. I may ask you to talk with me about code if I have any reason to doubt your understanding. This is NOT about cheating, this is about assessing your understanding.