

## CS 245

### Fall 2021 Midterm 2

(These instructions are identical to those of the first midterm, except for this sentence.)

#### Instructions and Rules

1. You will receive an email from me indicating that the exam is available. You may take the exam any time after you receive that email. You must complete the exam prior to midnight.
2. You have 100 minutes from the time you hit the button to obtain the exam until you return it to me. The exam is intended to require less than 80 minutes to complete. The remaining time (20 minutes) is to give you time to obtain the exam; return the exam; have a printer failure or other electronic mishap; etc
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 [gtowell245@cs.brynmawr.edu](mailto:gtowell245@cs.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.
6. This is an open 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.

7. All code given in this test compiles and runs without errors unless clearly indicated.
8. 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.
9. 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.
10. 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.
11. While you are taking the exam, you can email me with questions. However, I make no promises about when I will be available. So, you are better off using point 11.
12. You may use any function defined in Java 11 (and Go 16 and Kotlin 1.5.30) except if specified in particular questions.