CS/ECE 374A: Intro. Algorithms & Models of Computation, Fall 2024
Midterm 1   **Monday, September 30, 2024: 7-9pm**

$\boxed{\textbf{Location: CIF 0025}}$

$\boxed{\text{Name}}$ ⁞ _____   ⟸ Please PRINT

$\boxed{\text{NetID}}$ ⁞ _____   ⟸ Please PRINT

- Please print your name and NetID. Anonymous submissions would not be graded.
- There are four questions – you should answer all of them.
- If you brought anything except your writing implements, your double-sided **handwritten** (in the original, by yourself) $8\frac{1}{2}" \times 11"$ cheat sheet, and your university ID, please put it away for the duration of the exam. In particular, please turn off and put away *all* medically unnecessary electronic devices.
    - Submit your cheat sheet together with your exam. We will not return or scan the cheat sheets, so photocopy them before the exam if you want a copy.
    - If you are NOT using a cheat sheet, please indicate so in large friendly letters on this page.
- Please read all the questions before starting to answer them. Please ask for clarification if any question is unclear.
- **This exam lasts 120 minutes.** The clock started when you got the questions.
- If you run out of space for an answer, feel free to use the blank pages at the back of this booklet, but please tell us where to look.
- Give complete solutions, not examples. Declare all your variables. If you don't know the answer admit it and move to the next question. We will happily give 0 points for nonsense answers.
- **Style counts.** Please use the backs of the pages or the blank pages at the end for scratch work, so that your actual answers are clear.
- Please return *all* paper with your answer booklet: your exam, your cheat sheet, and all scratch paper.
- Do not write outside the framed area, do not remove the staple, and do not remove the last page of the booklet.
- *Good luck!*