This exam is: **closed-book**, **NO electronic devices allowed**, and **closed-notes**. The exception is the "sage page" of the designated size on which you may have notes to consult during the exam.

Be sure you: Provide legible answers in designated areas (credit will not be given for work that is difficult to read or not where expected), Ensure you clearly fill in a single circle/square(s) on multiple choice questions, Use indentation of your code to show its structure (but don't dwell on exact punctuation/syntax), Leave the exam stapled together in its original order, Do *NOT* attach any other pages to the exam. You are welcome to use the blank space on the exam for any scratch work.

If you need to leave the room for any reason prior to turning in your exam, you must leave your exam and any electronic devices with a proctor. We do not clarify or explain anything during the exam session. State your assumptions if something is unclear and do the best you can.

Question:	1	2	3	4	5	6	7	8	Total
Points:	14	8	4	8	18	24	12	12	100

You must complete all the identifying information below correctly. Failure to do so is grounds for a zero on this exam:

- Name (<u>print</u> clearly):
 Student ID (<u>print</u> clearly; 1 digit per underline):
- 3. You must <u>sign</u> the pledge below for your exam to count. The penalty for cheating will be decided during academic integrity review, but the instructors will recommend an F in this course as the minimum penalty.

I have read the instructions on this page and I will neither give nor receive any unauthorized aid on this exam.

(Sign above)

 \implies Do not proceed until told to do so! \Leftarrow

 \implies Initial the top right corner of each page before starting \iff