COMPUTER SCIENCE XXX (SPRING, 20XX)
DATA STRUCTURES AND ALGORITHMS
EXAM 1

Do not open this exam booklet until you are directed to do so. **Read all the instructions on this page.**

- This exam is closed book and closed notes. No electronic devices are allowed.
- Write your solutions in the space provided. Two extra sheets of scratch paper are attached.
- Do not waste time re-deriving facts that we have studied. It is sufficient to cite known results.
- Do not spend too much time on any one problem. Read them all through first, and attack them in the order that allows you to make the most progress. Use your time wisely!

This exam counts as xx% of your final grade.

Ethics Pledge: With your signature you affirm the following: "I agree to complete this exam without unauthorized assistance from any person, material, or device."

_____   _____
Name   *Email*

_____
Signature

Fill in course ID number:	① ② ③ — ① ② ③ — ① ② ③
Leave blank if unknown	④ ⑤ ⑥ — ④ ⑤ ⑥ — ④ ⑤ ⑥
	⑦ ⑧ ⑨ — ⑦ ⑧ ⑨ — ⑦ ⑧ ⑨

------------------ DO NOT WRITE BELOW DOTTED LINE ------------------

Question 1	Question 2	Question 3	Question 4	Question 5	Final Grade
⓪⓪ ①① ②② ③③ ④④ ⑤⑤ ⑥⑥ ⑦⑦ ⑧⑧ ⑨⑨	⓪⓪ ①① ②② ③③ ④④ ⑤⑤ ⑥⑥ ⑦⑦ ⑧⑧ ⑨⑨	⓪⓪ ①① ②② ③③ ④④ ⑤⑤ ⑥⑥ ⑦⑦ ⑧⑧ ⑨⑨	⓪⓪ ①① ②② ③③ ④④ ⑤⑤ ⑥⑥ ⑦⑦ ⑧⑧ ⑨⑨	⓪⓪ ①① ②② ③③ ④④ ⑤⑤ ⑥⑥ ⑦⑦ ⑧⑧ ⑨⑨	⓪⓪⓪ ①①① ②② ③③ ④④ ⑤⑤ ⑥⑥ ⑦⑦ ⑧⑧ ⑨⑨