1. (30 points) **Prepare for Exam IV**

Here is a checklist for helping you prepare for the fourth (final) exam:

- The exam will start at 12:30 PM on 5/22/2023 (30 points).
- This exam will cover all the chapters of this semester.
- You cannot bring any cheat sheets, books, laptops, phones, etc. Your phone will be placed together elsewhere in the exam. Your seat will be reallocated randomly.
- You can bring a simple calculator if you want to.
- Some questions are similar to Exam 3.1 and 3.3.
- One question is similar to one of the questions from Exam 3.8 to 3.11.
- Some questions are similar to the questions from Exam 2.5, 2.6, 2.7, 2.9, and 2.10.
- Some questions are similar to Exam 1.1, 1.4, 1.8, and 1.9.
- Maybe one or two more questions are undecided.
- One question is about dynamic programming or greedy algorithm.
- Good luck!