1. **(20 points) Prepare for Exam III**

Here is a checklist for helping you prepare for the third exam:

- The third exam will be on 5/8/2023 (25 points).
- This exam will cover Chapter 7, 10, and 11.
- 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.
- One question is about basic probability.
- One question is about Bayes’ Theorem.
- One question is about Euler path.
- One question is about converting a tree to a bipartite, with definitions of a tree and bipartite.
- One question is about complement graphs.
- One question is about planar graphs.
- One question is about graph representations: adjacent list and matrix.
- One question is about graphic sequences.
- One question is about the Dijkstra algorithm.
- One question is about minimum spanning trees.
- One question is about the Huffman code.
- Maybe one or two more questions are undecided.
- Good luck!