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 4/27/2022 (more than 20 points).
- This exam will cover topics: Binary Search Trees, Queues, Priority Queues, Heaps, and tree search.
- Some small questions are about terminologies or properties of trees including tree traversals (preorder, inorder, and postorder).
- One question is about completing the functions of Binary Search Trees. (No insertion and deletion)
- One question is about completing the functions of Heaps.
- One question is about complexities of Binary Search Trees and Heaps.
- One question is about Binary Search Trees from Leetcode.
- One question is about Heaps from Leetcode.
- One question is about running tree searches using queue and stack.