Do Practice HW Problems!
Everything from M1_StudyGuide
Everything from M2_StudyGuide

For each of the Data Structures covered so far (see below), know:

- All relevant Operations
    - O(???) for each
        - Worst case, Best case, Average case
    - Theoretical (non-Python) Algorithms for each (including recursive ones), and including drawing pictures of linked-lists, arrays, trees, hash tables, etc.
    - Be able to Read/Write/debug Python code for each operation
- Data structures:
    - Graphs
    - Red-Black Trees

Data Structures since midterm 2:

Graph

- Operations:
    - Creating/storing in dictionary of Vertices
    - DFS
    - BFS
    - Tsort
    - Bipartite/Bicolorable

Red-Black Tree

- Operations:
    - add/insert
        - Understand the logic and concepts (not necessary to understand code).

Code Reading/Writing

- Be able to read/write Python code for operations of the covered data structures, especially for the operations implemented in labs/projects.
    - Labs: 8
    - Projects: 4, 5

Random things to make sure you know:

- How to construct a Huffman Tree, based on frequency counts.