Internship Prep - Study Plan

1. **Go over 1331 Notes** (read the most important sections that you’re unfamiliar with)
   1. Abstract classes
   2. Interfaces
   3. Static/global/hidden variables and classes
2. **Review from 1332 Notes** (In the past I had already covered a, b, e, f, h in the list below)
   1. Arrays and Array Lists
   2. Linked Lists
   3. *Stacks*
   4. *Queues*
   5. *Trees*
   6. *BST (skimmed a bit)*
   7. *Heaps and Priority Queues*
   8. *HashMaps*
   9. SkipLists
   10. *AVL Trees*
   11. *B-Trees*
   12. *Splay Trees*
   13. SORTING
       1. Bubble Sort
       2. Insertion Sort
       3. Selection Sort
       4. Merge Sort
       5. Quick Sort
       6. LSD Radix Sort
       7. MSD Radix Sort
   14. *String Searching*
   15. *Graphs*
   16. *Minimum Spanning Trees*
3. **Read “Cracking the Coding Interview”**
   1. Chapter 1
   2. Chapter 2
   3. Chapter 3
   4. Chapter 4
   5. Chapter 5
   6. Chapter 6
   7. Chapter 7
   8. Chapter 8
   9. Chapter 9
   10. Chapter 10
   11. Chapter 11
   12. Chapter 12
   13. Chapter 13
   14. Chapter 14
   15. Chapter 15
   16. Chapter 16
4. **CodeDeploy** (In the past I had done a, b, c in the list below)
   1. Arrays
   2. LinkedLists
   3. Hash Tables (If time, go and do some more on other sites)
   4. *Trees: Basic*
   5. *Heaps, Stacks, Queues*
   6. *Graphs*
   7. *Trees: Advanced*
   8. *DFS & BFS*
   9. Backtracking
   10. Sorting
   11. *Dynamic Programming: Basic*
   12. Dynamic Programming: Advanced
   13. Common Techniques: Basic
   14. *Strings*
   15. Bits
   16. Common Techniques: Advanced
   17. RegEx

**Python Study Plan**

* Review solved problems from CodeFights:

**STUDY ORDER:**

1. CodeFights Python
2. Python Notes
3. MATLAB from past Homeworks
4. Trees/Graphs, continue with original study plan!
   * Arrays
   * Linked Lists
   * Hash Tables
   * Trees: Basic
   * Heaps, Stacks, Queues
   * Graphs
   * Trees: Advanced
   * DFS and BFS
   * Backtracking
   * Sorting
   * Dynamic Programming: Basics
   * Dynamic Programming: Advanced
   * Common Techniques: Basics
   * Strings
   * Bits
   * Common Techniques: Advanced
   * RegEx

* Review my own python notes