Topics learnt:

1. Segment Tree (Practice GSS1, GSS3)
2. Fenwick Tree (BIT) (Complete Practice Problems from DOC)
3. BFS, DFS (Complete Practice Problems from DOC)
4. Kruskal MST (Revise)
5. Dijkstra’s (Harder problems? Problem 5 Round pi)
6. Krager’s Min cut (Learn Edmond Karp’s)
7. Tarjan’s algorithm for SCCs (Implement Articulation points, Bridge etc.)
8. MergeSort (Application: Find number of Inversions)
9. Quicksort (Application: Linear Time Selection)
10. Counting Sort (Application: Sorting fast numbers in O(n))
11. Z-Algorithm (complete CHSTR)
12. Floyd Warshall (Complete CSTREET, Understand properly)
13. Disjoint Set/ Union-Find
14. nCr, Modular Inverse, precompute Pascal Triangle

Topics to learn:

1. FUCKING DP
2. KMP
3. Rabin-Karp
4. Suffix Arrays and Trees
5. Max Flows
6. Matrix Exponentiation
7. FFT

…And everything else in the DOC