

Array & Strings

① → STL → GFG

② → Recursion + Trie

② Bit Manipulation
+ OOPS

③ → Stacks & Queues

↳ Balagurusami

+ 2 Pointers → GFG

→ Visual
→ Diamond prob.

→ Pointer

④ Binary Search (+ & name) + Trie

→ Painter's Prob

→ Book Allocation

+ Heap

+ Sorting & Searching Algos

↳ Merge, Bubble, Selection, Insertion
(Quick, Counting Sort, Heapsort
↳ Inversion ~~merge~~ count

⑤ Trees → Views, Diameter
Largest BST in Trees
B-Tree LCA, Largest Path
+ BST

⑥ ~~Character~~ ^{Hashing} ~~Trees~~ ^{Hashing} unordered map & ^{map} ~~ordered~~
Heaps priority queues ~~map~~

⑦ DP → LIS, ~~Longest~~, Burst Balloon,
Longest LPS, Coin Problem

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⑧ Graphs

Prim, Kruskal
Union Find
AP Bridge
Shortest Path

BFS
DFS

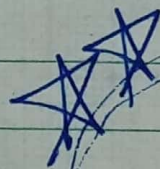
→ Bellman
→ Floyd
→ Dijkstra

⑨ OS, DBMS, OOPS

↓
Cratesmatchers



ACID, SQL
ER diagram, (Join)
Normalization sort,
(2nf, 3nf, 4nf) form



Pattern Matching

KMP
Algo

→ Tushar Roy
→ hkf b

⑩ CN

⑪ →

Leetcode

✓ DP
✓ Stacks Queue
✓ Greedy (Sorting, etc)
≈ Random

Teacher Signature :