

## DSA FINAL EXAM SYLLABUS

S#	TOPICS	CODE	DRY RUN
1	Dynamic arrays	Yes	Yes
2	Linked lists (SLL, DLL, CLL)	Yes	Yes
3	Stacks, Queues	Yes	Yes
4	Elementary sorts (Bubble, Selection, Insertion, Selection)	Yes	Yes
5	Merge, Quicksort	Yes	Yes
6	Radix Sort	No	Yes
7	Backtracking/Recursion	No	Yes
8	Binary Search, Interpolation Search	Yes	Yes
9	Binary trees and their properties (Full Binary Tree, Complete Binary Tree), Tree Traversal (in order, pre order, post order)	Yes	Yes
10	BST (Addition, Deletion, Complexity)	Yes	Yes
11	AVL (Insertion Deletion, Rotation)	Yes	Yes
12	2-3 Trees (Insertion Deletion, Balancing)	No	Yes
13	B-trees (Insertion Deletion, Balancing)	No	Yes
14	Priority Queue	Yes	Yes
15	Heap, Heap Sort	Yes	Yes
16	Hashing	Yes	Yes
17	String Searching (Brute Force, KMP)	No	Yes
18	Graphs Implementation using array & Linked list, DFS, BFS	Yes	Yes
19	Topological Sort	No	Yes
20	Kruskal's Algorithm	No	Yes