ItsRunTym

DSA Coding Sheet

150+ DSA Leetcode questions

Arrays/String

Serial Number	Problem Name	Difficulty	Link
1	Merge Sorted Array	Easy	>
2	Remove Element	Easy	>
3	Remove Duplicates from Sorted Array	Easy	>
4	Remove Duplicates from Sorted Array II	Medium	>
5	Majority Element	Easy	>
6	Rotate Array	Medium	>
7	Best Time to Buy and Sell Stock	Easy	>
8	Best Time to Buy and Sell Stock II	Medium	>
9	Jump Game	Medium	>
10	Jump Game II	Medium	>
11	H-Index	Medium	>
12	Insert Delete GetRandom O(1)	Medium	>
13	Product of Array Except Self	Medium	>
14	Gas Station	Medium	<u> </u>

Serial Number	Problem Name	Difficulty	Link
15	Candy	Hard	>
16	Trapping Rain Water	Hard	>
17	Roman to Integer	Easy	>
18	Integer to Roman	Medium	>
19	Length of Last Word	Easy	>
20	Longest Common Prefix	Easy	>
21	Reverse Words in a String	Medium	>
22	Zigzag Conversion	Medium	>
23	Find the Index of the First Occurrence in a String	Easy	>
24	Text Justification	Hard	>
25	Rotate Matrix	Medium	>
26	Merge Overlapping Subintervals	Medium	>
27	Merge two sorted arrays without extra space	Medium	>
28	Find the duplicate in an array of N+2 integers	1 Medium	>
29	Grid Unique Paths	Medium	>
30	Majority Element (n/3 times)	Medium	>
Two Pointers			
Serial Number	Problem Name	Difficulty Li	nk
31	Valid Palindrome	Easy	>
32	Is Subsequence	Easy	>

Serial Number	Problem Name		Di	fficulty	Link
33	Two Sum II - Input A	Array Is Sorted	M M	edium	>
34	Container With Mo	st Water	M	edium	>
35	3Sum		M	edium	>
36	Move Zeroes		Ea	sy	>
Sliding Windo	ow				
Serial Number	Problem Name			Difficulty	, Link
37	Minimum Size Subarr	ray Sum		Medium	>
38	Longest Substring Wi Characters	thout Repeati	ng	Medium	>
39	Substring with Conca Words	tenation of Al	I	Hard	÷
40	Minimum Window Su	ubstring		Hard	>
Matrix					
Serial Number	Problem Name	Difficulty	Link		
41	Valid Sudoku	Medium	>		
42	Spiral Matrix	Medium	>		
43	Rotate Image	Medium	>		
44	Set Matrix Zeroes	Medium	>		
45	Game of Life	Medium	>		
Linked List					
Serial Number	Problem Name			Difficulty	, Link
46	Linked List Cycle			Easy	>

Serial Number	Problem Name	Difficulty	Link
47	Add Two Numbers	Medium	>
48	Merge Two Sorted Lists	Easy	3
49	Copy List with Random Pointer	Medium	3
50	Reverse Linked List II	Medium	3
51	Reverse Nodes in k-Group	Hard	>
52	Remove Nth Node From End of List	Medium	>
53	Remove Duplicates from Sorted List II	Medium	>
54	Rotate List	Medium	>
55	Partition List	Medium	>
56	LRU Cache	Medium	>
57	Find intersection point of Y LinkedList	Medium	>
58	Detect a cycle in Linked List	Medium	>
59	Reverse a LinkedList in groups of size k	Hard	>
60	Check if a LinkedList is palindrome or not	Medium	3
61	Find the starting point of the Loop of LinkedList	Medium	÷
62	Flattening of a LinkedList	Hard	>
Stack			
Serial Number	Problem Name	Difficulty	Link
63	Valid Parentheses	Easy	>
64	Simplify Path	Medium	>

Serial Number	Problem Name	Difficulty	Link
65	Min Stack	Medium	<u> </u>
66	Evaluate Reverse Polish Notation	Medium	>
67	Basic Calculator	Hard	3
68	Largest Rectangle in a Histogram	Medium	>
69	Sliding Window Maximum	Hard	3
70	Implement Min Stack	Medium	3
71	Rotten Orange (Using BFS)	Medium	>
72	Stock Span Problem	Medium	3
73	Find the Maximum of Minimums of Every Window Size	Medium	>
74	The Celebrity Problem	Hard	>

Recursion

Serial Number	Problem Name	Difficulty	Link
75	Subset Sums	Medium	<u>></u>
76	Subset-II	Medium	>
77	Combination Sum-1	Medium	<u> </u>
78	Combination Sum-2	Medium	>
79	Palindrome Partitioning	Medium	<u>></u>
80	K-th Permutation Sequence	Hard	>

Binary Tree General

Serial	Droblem Neme	Difficulty	مامينا
Number	Problem Name	Difficulty	LINK

Serial Number	Problem Name	Difficulty	Link
81	Maximum Depth of Binary Tree	Easy	>
82	Same Tree	Easy	>
83	Invert Binary Tree	Easy	>
84	Symmetric Tree	Easy	<u>></u>
85	Construct Binary Tree from Preorder and Inorder Traversal	Medium	÷
86	Construct Binary Tree from Inorder and Postorder Traversal	Medium	>
87	Populating Next Right Pointers in Each Node II	Medium	>
88	Flatten Binary Tree to Linked List	Medium	>
89	Path Sum	Easy	>
90	Sum Root to Leaf Numbers	Medium	<u>></u>
91	Binary Tree Maximum Path Sum	Hard	>
92	Binary Search Tree Iterator	Medium	>
93	Count Complete Tree Nodes	Easy	>
94	Lowest Common Ancestor of a Binary Tree	Medium	÷
Binary Tree	BFS		
Serial	Problem Name	Difficulty	Link

Difficulty

Medium

Easy

Link

Problem Name

Binary Tree Right Side View

Average of Levels in Binary Tree

Number

95

96

Serial Number	Problem Name		Difficulty	Link
97	Binary Tree Level Orde	er Traversal	Medium	>
98	Binary Tree Zigzag Leve Traversal	el Order	Medium	>
Binary Search	Tree			
Serial Number	Problem Name		Difficulty	Link
99	Minimum Absolute Di	fference in BST	Easy	>
100	Kth Smallest Element	in a BST	Medium	>
101				
101	Validate Binary Search	n Tree	Medium	>
Graph Genera	•	n Tree	Medium	>
	•		Medium i nk	>
Graph Genera	l			>

Serial Number	Problem Name	Difficulty	Link
103	Number of Islands	Medium	>
104	Surrounded Regions	Medium	>
105	Clone Graph	Medium	>
106	Evaluate Division	Medium	>
107	Course Schedule	Medium	>
108	Course Schedule II	Medium	

Graph BFS

Serial Number	Problem Name	Difficulty	Link
109	Snakes and Ladders	Medium	>
110	Minimum Genetic Mutation	Medium	>
111	Word Ladder	Hard	>

Trie

Serial Number	Problem Name	Difficulty	Link
112	Implement Trie (Prefix Tree)	Medium	<u> </u>
113	Design Add and Search Words Data Structure	Medium	>
114	Word Search II	Hard	÷
Backtracking			
Serial Number	Problem Name	Difficulty	Link
115	Letter Combinations of a Phone Number	Medium	÷
116	Combinations	Medium	<u>^</u>
117	Permutations	Medium	<u> </u>
118	Combination Sum	Medium	<u> </u>
119	N-Queens II	Hard	>
120	Generate Parentheses	Medium	>
121	Word Search	Medium	>
Divide & Cond	quer		
Serial Number	Problem Name	Difficulty	Link
122	Convert Sorted Array to Binary Search Tree	Easy	>
123	Sort List	Medium	<u>></u>
124	Construct Quad Tree	Medium	>
125	Merge k Sorted Lists	Hard	>

Kadane's Algorithm

Serial Number	Problem Name	Diff	iculty	Linl	•			
126	Maximum Subarray	Me	dium	3	•			
127	Maximum Sum Circular Subarray	Me	dium	>	,			
Binary Search	า							
Serial Number	Problem Name		Difficu	lty	Link			
128	Search Insert Position		Easy		÷			
129	Search a 2D Matrix		Mediu	m	>			
130	Find Peak Element		Mediu	m	>			
131	Search in Rotated Sorted Array		Mediu	m	>			
132	Find First and Last Position of Eleme in Sorted Array	nt	Mediu	m	÷			
133	Find Minimum in Rotated Sorted Arr	ay	Mediu	m	3			
134	Median of Two Sorted Arrays		Hard		>			
Неар								
Serial Number	Problem Name	Diffic	culty	Link				
135	Kth Largest Element in an Array	Medi	ium	>				
136	IPO	Hard		>				
137	Find K Pairs with Smallest Sums	Medi	ium	>				
138	Find Median from Data Stream	Hard		>				
Bit Manipulation								
Serial Number	Problem Name	Diffic	culty	Link				
139	Add Binary	Easy		>				
140	Reverse Bits	Easy		>				

Serial Number	Problem Name		Difficulty	Link				
141	Number of 1 Bits		Easy	>				
142	Single Number		Easy	>				
143	Single Number II		Medium	>				
144	Bitwise AND of Numbers Range		Medium	>				
Math								
Serial Number	Problem Name	Difficul	ty Link					
145	Palindrome Number	Easy	>					
146	Plus One	Easy	>					
147	Factorial Trailing Zeroes	Mediur	n 🗦					
148	Sqrt(x)	Easy	>					
149	Pow(x, n)	Mediur	n 🗦					
150	Max Points on a Line	Hard	>					
1D DP								
Serial Number	Problem Name		Difficulty	Link				
151	Climbing Stairs		Easy	>				
152	House Robber		Medium	>				
153	Word Break		Medium	>				
154	Coin Change		Medium	>				
155	Longest Increasing Subsec	quence	Medium	>				
Multidimensional DP								
Serial Number	Problem Name		Difficulty	Link				
156	Triangle		Medium	>				

Serial Number	Problem Name	Difficulty	Link
157	Minimum Path Sum	Medium	<u> </u>
158	Unique Paths II	Medium	>
159	Longest Palindromic Substring	Medium	>
160	Interleaving String	Medium	>
161	Edit Distance	Medium	>
162	Best Time to Buy and Sell Stock III	Hard	>
163	Best Time to Buy and Sell Stock IV	Hard	>
164	Maximal Square	Medium	>