	Nish	ant Bhaiya's 15	1
	REMEMBER		Checkout AlgoPrep: https://bit.ly/AlgoPrep
	Nothing worth having comes easy!		Join the AlgoPrep Community: https://bit.ly/AlgoPrepCommunity
			How to make most of this sheet?: https://bit.ly/WhatsAlgoPrep151
Serial	Problem Name	Done?	Comments / Hints for the Problem
	Arrays		
1	Rotate Array		
2	<u>Squares of a sorted array</u>		
3	<u>Kadane's Algo</u>		
4	maximum product subarray		
5	<u>majority element</u>		
6	<u>majority</u> element 2		
7	Next Greater Element III		
8	Max chunks to make sorted		
9	Max Chunks To Make Sorted II		
10	number of subarrays with bounded maximum		
11	First missing positive		
12	Range Addition		
13	Min No. of Platform		
14	Trapping rain water		
	Two Pointers		
15	Container With Most Water		
16	Two Sum		
17	Two Difference		
	Recursion and BackTracking		
18	<u>Permutations</u>		
19	Permutation Sequence		
20	Combination Sum		

25	22	Letter combination of Phone number			
Bit Manipulation 25	23	N Queens			
25 Single Element	24	<u>Rat in a Maze Path</u>			
25 Single Element					
26		Bit Manipulation			
27 Single Number 3 28 Divide 2 Integers 29 Max AND Pais Hashtap 50 Check AP sequence 51 Grid illumination 52 Brick wall 53 Count of subarray with sum = k 54 Subarray sum divisible by K 55 Insert Delete GetRandom O(1) 56 Insert delete get random duplicates allowed 57 Longest consecutive sequence 58 Find all anagrams in a string 59 Find smallest size of string containing all char of other 40 Write hashnap 41 subarray with equal 0.1 and 2 Heap 45 KLargest Element 46 Minimum number of refueling spots 46 Employee Free time 47 Find Median from Data Stream Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 Search in rotated sorted array 50 Search in rotated sorted array	25	Single Element			
28 Divide 2 Integers 29 Max AND Pair. HoshMop 50 Check AP sequence 31 Grid illumination 32 Birk wall 33 Count of subarray with sum = k 34 Subarray sum divisible by K 35 Insert Delete GetRandom O(1) 36 Insert delete get random duplicates allowed 37 Longest consecutive sequence 38 Find all anagrams in a string 39 Find smallest size of string containing all char of other 40 Write hashmap 41 subarray with equal number of 0 and 1 42 Substring with equal o 1 and 2 Heap 43 Kith Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sicks 46 Employee Free time 47 Find Median from Data Stream Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array					
Max AND Pair.					
HashMap 30 Check AP sequence 31 Grid illumination 32 Brick wall 33 Count of subarray with sum = k 54 Subarray sum divisible by K 35 Insert Delete GetRandom O(1) 36 Insert delete get random duplicates allowed 37 Longest consecutive sequence 38 Find all anagrams in a string 39 Find smallest size of string containing all char of other 40 Write hashmap 41 subarray with equal number of 0 and 1 42 Substring with equal ol 1 and 2 43 Kth Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array					
Signature Sign	29	Max AND Pair.			
Signature Sign					
Sil					
32 Brick wall 33 Count of subarray with sum ≡ k 34 Subarray sum divisible by K 35 Insert Delete CetRandom O(1) 36 Insert delete get random duplicates allowed 37 Longest consecutive sequence 38 Find all anagrams in a string 39 Find smallest size of string containing all char of other 40 Write hashmap 41 subarray with equal number of 0 and 1 42 Substring with equal 0 1 and 2 Heap 43 Kh Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream 8 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array					
35 Count of subarray with sum = k 34 Subarray sum divisible by K 35 Insert Delete GetRandom O(1) 36 Insert delete get random duplicates allowed 37 Longest consecutive sequence 38 Find all anagrams in a string 39 Find smallest size of string containing all char of other 40 Write hashmap 41 subarray with equal number of 0 and 1 42 Substring with equal o 1 and 2 Heap 43 Kith Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array	31				
Subarray sum divisible by K Insert Delete GetRandom O(1) Longest consecutive sequence Find all anagrams in a string Find smallest size of string containing all char of other Write hashmap Subarray with equal number of 0 and 1 Substring with equal 0 1 and 2 Heap Kith Lorgest Element Minimum number of refueling spots minimum cost to connect sticks Key Employee Free time Find Median from Data Stream Binary Search Subarray sorted array Painter's partition problem Search in rotated sorted array					
Insert Delete GetRandom O(1) Insert delete get random duplicates allowed Insert delete get random duplicates					
36 Insert delete get random duplicates allowed 37 Longest consecutive sequence 38 Find all anagrams in a string 39 Find smallest size of string containing all char of other 40 Write hashmap 41 subarray with equal number of 0 and 1 42 Substring with equal 0 1 and 2 Heap 43 Kth Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array					
37 Longest consecutive sequence 38 Find all anagrams in a string 39 Find smallest size of string containing all char of other 40 Write hashmap 41 subarray with equal number of 0 and 1 42 Substring with equal 0 1 and 2 Heap 43 Kith Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array	35				
Find all anagrams in a string Find smallest size of string containing all char of other Write hashmap Subarray with equal number of 0 and 1 Substring with equal 0 1 and 2 Heap Hasp Minimum number of refueling spots Minimum cost to connect sticks Employee Free time Find Median from Data Stream Binary Search As capacity to ship within D days Painter's partition problem Search in rotated sorted array	36	Insert delete get random duplicates allowed			
Find smallest size of string containing all char of other Write hashmap Subarray with equal number of 0 and 1 Substring with equal 0 1 and 2 Heap Kith Largest Element Minimum number of refueling spots Minimum cost to connect sticks Employee Free time Find Median from Data Stream Binary Search As capacity to ship within D days Painter's partition problem Search in rotated sorted array	37	Longest consecutive sequence			
40 Write hashmap 41 Subarray with equal number of 0 and 1 42 Substring with equal 0 1 and 2 Heap 43 Kth Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array.	38	Find all anagrams in a string			
41 Substring with equal number of 0 and 1 42 Substring with equal 0 1 and 2 Heap 43 Kth Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array	39	Find smallest size of string containing all char of other			
Heap Heap Kth Largest Element Minimum number of refueling spots minimum cost to connect sticks Employee Free time Find Median from Data Stream Binary Search As capacity to ship within D days Painter's partition problem search in rotated sorted array.	40	<u>Write hashmap</u>			
Heap 45 Kth Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array	41	subarray with equal number of 0 and 1			
43 Kth Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array.	42	Substring with equal 0 1 and 2			
43 Kth Largest Element 44 Minimum number of refueling spots 45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array.					
Minimum number of refueling spots minimum cost to connect sticks Employee Free time Find Median from Data Stream Binary Search capacity to ship within D days Painter's partition problem search in rotated sorted array		<u>Неар</u>			
45 minimum cost to connect sticks 46 Employee Free time 47 Find Median from Data Stream Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array.	43	Kth Largest Element			
46 Employee Free time 47 Find Median from Data Stream Binary Search 48 Capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array	44	Minimum number of refueling spots			
47 Find Median from Data Stream Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array	45	minimum cost to connect sticks			
Binary Search 48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array		Employee Free time			
48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array	47	Find Median from Data Stream			
48 capacity to ship within D days 49 Painter's partition problem 50 search in rotated sorted array					
49 Painter's partition problem 50 search in rotated sorted array					
50 search in rotated sorted array	48				
	49	Painter's partition problem			
51 <u>Search in rotated sorted array 2</u>	50	search in rotated sorted array			
	51	Search in rotated sorted array 2			

52	Allocate books			
53	median of two sorted array			
	<u>LinkedList</u>			
54	reverse LinkedList			
55	Find the middle element			
56	Floyd cycle			
57	Clone a linkedlist			
58	Intersection point of 2 linked list			
59	<u>LRU Cache</u>			
	Stacks and Queues			
60	<u>Next Greater Element</u>			
61	Largest Rectangular Area Histogram			
62	maximu size binary matrix containing 1			
63	<u>Valid Parentheses</u>			
64	Min Stack			
65	K stacks in a single array			
66	<u>Infix evaluation</u>			
67	<u>K reverse in a queue</u>			
68	<u>K queue</u>			
	TREES			
69	Preorder Traversal			
70	<u>Inorder Traversal</u>			
71	Postorder Traversal			
72	<u>right side view</u>			
73	<u>Left View</u>			
74	<u>Top View</u>			
75	<u>Bottom View</u>			
76	<u>Vertical order</u>			
77	<u>Diagonal Traversal</u>			
78	Boundary Traversal			
79	Binary Tree Cameras			
80	<u>Max path sum</u>			
81	Delete node in bst			

82	Construct from inorder and preorder			
83	Next right pointer in each node			
84	Convert a binary tree to circular doubly linked list			
85	Conversion of sorted DLL to BST			
86	Lowest common ancestor			
87	serialize and deserialise			
	<u>Trie</u>			
88	Implement Trie			
89	Max XOR of two numbers in an array			
90	Maximum XOR with an element from Array			
	<u>DP</u>			
91	longest increasing subsequence			
92	longest increasing subsequence			
93	<u>building bridges</u>			
94	Russian doll envelopes			
95	Box stacking			
96	<u>Paint house</u>			
97	No. of binary string without consecutive 1			
98	Possible ways to construct the building			
99	<u>Total no. of bst</u>			
100	No. of balanced parentheses sequence			
101	Min cost path			
102	Cherry pickup			
103	Cherry pickup 2			
104	best time to buy and sell stock			
105	best time to buy and sell 2			
106	buy and sell with transaction fee			
107	best time to buy and sell with cool down			
108	best time to buy and sell 3			
109	best time to but and sell 4			
110	<u>burst balloons</u>			
111	Optimal BST			
112	Matrix chain multiplication			

	Longest common subsequence				
114	Count all pallindromic subsequence				
115	Count distinct pallindromic subsequence				
116	No. of sequence of type a^i+b^j+c^k				
117	2 egg 100 floor				
118	egg drop	·			
119	Regular Expression Matching	·			
120	Palindrome partitioning				
121	Frog jump				
122	Edit Distance				
123	0-1 Knapsack	·			
124	unbounded knapsack				
125	Fractional knapsack	·			
126	Coin change combination				
127	Coin change permutation	·			
	<u>GRAPHS</u>				
128	Number of Islands				
129	Number of Distinct Islands				
130	Rotting Oranges				
131	<u>Bipartite graph</u>				
132	<u>Bus routes</u>				
133	<u>Prim's Algo</u>				
134	<u>Dijkstra algo</u>				
135	<u>swim in rising water</u>				
136	0-1 matrix				
137	bellman ford	·			
138 139	Strongly Connected Components (Kosaraju's Algo)				
140	Mother Vertex Kahn's algo				
141	Alien Dictionary				
141	Number of Islands II	•			
143	Regions Cut By Slashes	·			
144	Sentence Similarity II	•			
145	Redundant Connection	•			
146	Redundant connection 2	•			
147	<u>Articulation point</u>				
148	Min swaps required to sort array				

149	Sliding Puzzle	
150	<u>Floyd Warshall</u>	
151	remove max number of edges to keep graph traversal	