These are the questions	which i did during my preparation.		
DCA CHE	T In AUGUANT CHALLAD		
	ET by NISHANT CHAHAR		
<b>Question Link</b>		DONE	HINT
<u>Stacks</u>			
1 Next Greater Element on	<u>right</u>		
2 <u>Next Greater Element 2</u>			
3 <u>Daily Temperatures</u>			
4 maximum difference betw	reen left and right smaller		
5 Stock Span Problem			
6 <u>Largest Rectangular Area</u>			
7 maximu size binary matri	x containing 1		
8 <u>Valid Parentheses</u>			
9 Length of longest valid su	-		
Count of duplicate Parent	heses		
11 Decode String			
12 Minimum Add To make P	arentheses Valid		
13 Print Bracket Number			
14 <u>Asteroid Collision</u>			
15 Backspace String Compa	<u>re</u>		
16 Print Binary Number			
17 Score Of String			
18 Remove K digits From nu 19 Car fleet	<u>mber</u>		
20 First negative Integer in k	sized window		
	<u>sized willdow</u>		
21 Addition 22 Gas Station			
23 Maximum sum of smalle:	t and second smallest		
24 Min Stack	st alla secolla siliallest		
25 K stacks in a single array			
26 Validate Stack			
27 K reverse in a queue	and account		
28 largest Pair sum in unsort	<u>ed array</u>		
Links of Links			
<u>Linked Lists</u>			
1 reverse LinkedList			
2 <u>K reverse</u>			
3 Floyd cycle			
4 Merge LinkedList			
5 Clone a linkedlist			
6 find modular node			
7 Remove duplicate from s	<u>orted</u>		
8 Find the middle element			
9 Nth element from end			

10	LRU Cache	
10		
	Binary Tree	
	Inorder Traversal	
	Preorder Traversal	
	Postorder Traversal	
	Print ancestor of given tree	
	Binary Tree Level Order	
	Average of levels	
	All Nodes at distance K	
	Count bst in a given range	
	Binary search tree to greater sum	
	Binary Tree Cameras	
	Binary Tree to BST	
	Binary Tree to BST	
	right side view	
	<u>Left View</u>	
	Vertical order Table Views	
	Top View	
	Bottom View	
	<u>Diagonal Traversal</u>	
	leftmost and rightmost node	
	kth smallest element	
	Binary Tree Tilt	
	Print all nodes that dont have siblings	
	House robber 3	
24	Boundary Traversal	
	Discussional tree	
	Binary search tree	
	Lowest common ancestor in BST	
	<u>Lowest common ancestor</u>	
	square root decomposition	
	Delete Node in BST	
	Construct from inorder and preorder	
	Construct from inorder and postorder	
	construct bst using postorder	
	Inorder and level order	
	serialize and deserialise	
	<u>Distribute coins in a binary tree</u>	
	duplicate subtree in a binary tree	
	Mixed from tree (General tree, AVL,BST)	
1	<u>AVL tree</u>	
2	image multiplication	
3	Binary TREE longest consecutive sequence	
4	<u>diameter of a tree</u>	

5 Kth smallest element of BST	
6 clone a binary tree with random pointer	
7 Flatten binary tree to linked list	
8 Convert a binary tree to circular doubly linked list	
9 Conversion of sorted DLL to BST	
10 Merge Two BST	
Pair violating BST property	
12 Flip binary tree to match preorder	
13 <u>inorder succesor</u>	
14 Rabbits in forest	
Arrays & strings ( STL )	
1 Array of doubled Pair	
2 Find smallest size of string containing all char of other	
3 Longest consecutive 1's	
4 number of subarrays sum exactly k	
5 <u>Subarray sum Divisible by k</u>	
6 longest substring with unique character	
7 subarray with equal number of 0 and 1	
8 Substring with equal 0 1 and 2	
9 same frequency after one removal	
10 K closest point from origin	
11 Anagram Pallindrome	
12 Minimum number of refueling spots	
13 Find all anagrams in a string	
14 K anagram	
15 smallest number whose digit mult to given no.	
16 Group anagram	
17 Huffman coding	
18 Isomorphic string	
19 Check AP sequence	
20 Count Pair whose sum is divisible by k	
21 smallest subarray with all the occurence of MFE	
22 Morning Assembly	
23 Kth smallest element in sorted 2d matrix	
24 Kth smallest prime fraction	
25 Max points on a line	
26 Brick wall	
27 Array Pair sum divisibility	
28 A simple fraction	
29 Grid illumination	
30 Insert Delete GetRandom O(1)	
31 Count of substring with k 1	
32 Incomplete array	
33 Long Pressed Name	
<u> </u>	

2.4	n a litter	
	Range Addition	
	Max range query	
	Magic Squares In Grid	
37	Next Greater Element III	
38	Orderly Queue	
39	maximum subarray	
40	<u>K-CON</u>	
41	Rotate Array	
42	Remove Duplicates from Sorted Array	
43	X of akind in a deck	
44	merge k sorted array	
45	<u>Grid illumination</u>	
46	Kth smallest after removing natural numbers	
	rearrange character string such that no two are same	
	Longest consecutive sequence	
	length of largest subarray with continuous element	
	length of largest subarray with cont element 2	
	Anagram mapping	
	Employee Free time	
	<u>Line reflection</u>	
	Неар	
	Ticup	
1	Binary heap	
	Build heap from array	
	Island perimeter	
	skyline problem	
	Pairs of coinciding points	
	trapping rain water	
	Trapping Rain Water II	
	Sort a nearly sorted array	
	<u>bulb switcher</u>	
	max frequency stack	
	Sliding window maximum	
	Swim in rising water	
	<u>Heap sort</u>	
	Product of Array Except Self	
	K empty slots	
16		
17	mathematics	
18		
19	Sieve of Eratosthenes	
	Segmented sieve	
	Squares of a Sorted Array	
	Fast Exponentiation	

23 Fibanasai Number	
23 Fibonacci Number	
24 Container With Most Water	
Constinu 9 Continu	
Searching & Sorting	
1 Segregate 0 and 1	
2 <u>Segregate 0-1-2</u>	
3 Sort Array By Parity	
4 MIn Jump required with +i or -i allowed	
5 Max chunks to make sorted	
6 Max Chunks To Make Sorted II	
7 Two Sum	
8 <u>Two Difference</u>	
9 LPS	
10 Shortest Palindrome	
11 Boats to Save People	
12 Min No. of Platform	
13 Maximum Swap	
14 Optimal Division	
15 Max Consecutive Ones II	
16 max consecutive ones 3	
17 majority element	
18 majority element 2	
19 majority element general	
20 Reverse vowels of a string	
21 First missing positive	
22 <u>push dominoes</u>	
23 moving stones until consecutive 2	
24 max product of 3 numbers	
25 largest number atleast twice of others	
26 maximum product subarray	
27 rotate image	
28 number of subarrays with bounded maximum	
29 partition labels	
30 global and local inversions	
31 partition array into disjoint intervals	
32 <u>valid pallindrome 2</u>	
33 consecutive number sum	
34 minimum domino rotation for equal row	
35 multiply strings	
36 smallest range from k lists	
37 pascal triangle 2	
38 max sum of two non overlapping subarrays	
39 maximize distance to closest person	
40 Subarrays with k different integers	

41 Icing on cake	
42 search in rotated sorted array	
43 split array largest sum	
44 counting sort	
45 capacity to ship within D days	
46 insertion sort	
47 koko eating bananas	
48 median of two sorted array	
49 merge sort	
50 <u>smallest divisor given a threshold</u>	
51 wiggle sort	
52 <u>best meeting points</u>	
Graph	
•	
1 BFS of graph	
2 Bipartite graph	
3 DFS	
4 detect cycle in undirected graph	
5 Prim's Algo	
6 Dijkstra algo	
7 chef and reversing	
8 Bus routes	
9 evaluate division	
10 topological sorting	
11 Kahn's algo	
12 course schedule 2	
13 Strongly Connected Components (Kosaraju's Algo)	
14 Mother Vertex	
15 Rotting Oranges	
16 bellman ford	
17 Number of Islands	
18 DSU	
19 Number of Enclaves	
20 Most Stones Removed with Same Row or Column	
21 Regions Cut By Slashes	
22 Kruskal's algo	
23 Articulation point	
24 Doctor Strange	
25 Satisfiability of Equality Equations	
26 <u>0-1 matrix</u>	
27 Word Ladder	
28 Job Sequencing	
29 <u>Eulerian Path in an Undirected Graph</u>	
30 Euler Circuit in a Directed Graph	

24	Castle DUM	
	Castle RUN	
	Sentence Similarity II	
	Number of Distinct Islands	
	Number of Islands II	
	Parallel courses	
	optimize water distribution in village	
37	connecting cities with minimum cost	
	Dynamic programming	
	Minimize Malware Spread	
	<u>climbing stairs</u>	
3 ,	Jump game 2	
	Min cost path	
5	max size subsquare with all 1	
6	0-1 Knapsack	
7	<u>fractional knapsack</u>	
8	longest increasing subsequence	
9	longest increasing subsequence	
10	minimum number of increasing subsequence	
11	building bridges	
12	Box stacking	
13	max sum alternating subsequence	
14	best time to buy and sell stock	
15	best time to buy and sell 2	
16	best time to buy and sell 3	
17	best time to buy and sell 4	
18	best time to buy and sell with cool down	
19	buy and sell with transaction time	
20	Ugly number	
21	Super ugly number	
22	Domino and tromino tilling	
23	Wildcard pattern matching	
24	Regular expression matching	
25	Count all pallindromic subsequences	
26	Regular expression matching	
27	Count all pallindromic subsequence	
28	Count distinct pallindromic subsequence	
29	Count of binary string without consecutive 1	
30	Max sum with no 2 adjacent element	
31	Pizza with 3n slices	
32	LCS triplet	
34	Edit distance	
35	Frog jump	
36	Friends pairing problem	

27 Partition of acts into k authorts	
37 Partition of sets into k subsets	
38 <u>Can i win</u>	
39 Knight probability	
40 Temple offering	
41 Highway billboard problem	
42 No. of sequence of type a^i+b^j+c^k	
43 boolean parenthesization	
44 Min and max with + and *	
45 Optimal BST	
46 Find water in glass	
47 <u>cherry pickup</u>	
48 arithmetic slices	
49 arithmetic slices 2	
50 Largest sum subarray atleast k numbers	
51 Maximum sum of 3 non overlapping subarrays	
52 Remove min element according to constraint	
53 Scramble string	
54 Minimum score triangulation	
55 2 keys keyboard	
56 4 keys keyboard	
57 Mobile numeric keypad	
58 Word break	
59 burst balloons	
60 Encode string with shortest length	
61 longest repeating subsequence	
62 String is k pallindromic or not	
63 Count distinct subsequence 64 Shortest uncommon subsequence	
65 minimal moves to form a string	
66 Paint fence	
67 Paint house	
68 Paint house 2	
BFS/DFS	
Sliding Puzzle	
1 Find the Maximum Flow	
2 Maximum Bipartite Matching	
3 Reconstruct Itinerary	
4 Redundant Connection	
5 Redundant connection 2	
6 Possible Bipartition	
7 Floyd Warshall	
8 Johnson's algorithm	
9 Journey to the moon	
10 Sort item by group accord to dependencies	
551 LITERIA DY RIOUP ACCOUNT TO DEPENDENCIES	

11	As far from land as possible	
11	<u>K-Similar Strings</u>	
12	Similar String Groups	
13	Coloring A Border	
14	Shortest bridge	
15	Min swaps required to sort array	
16	Walls and gates	
17	The maze 2	
	Text processing	
	KMP	
2	Find string roots	
3	Z algo	
4	chef and secret password	
5	Manacher's algo	
	Number theory	
1	Euclidean algorithm	
2	Extended Euclidean algorithm	
3	Linear diaophantine equation	
4	Euler's totient function	
5	Divisors upto n	
6	Fermat's little theorem	
7	No min No max	
	Boring factorials	
	<u>FFT</u>	
	Geometry	
1	Erect the fence	
	Game Theory	
	5 Pirates and 100 coins	
2	Nim game	
3	Buddy nim	