	These are the questions which i did during my preparation.		
	DSA SHEET by NISHANT CHAHAR		
	Question Link	DONE	HINT
	<u>Stacks</u>		
1	Next Greater Element on right		
2	Next Greater Element 2		
3	<u>Daily Temperatures</u>		
4	maximum difference between left and right smaller		
5	Stock Span Problem		
6	Largest Rectangular Area Histogram		
7	maximu size binary matrix containing 1		
	Valid Parentheses		
9	Length of longest valid substring		
	Count of duplicate Parentheses		
11	Decode String		
	Minimum Add To make Parentheses Valid		
	Print Bracket Number		
	Asteroid Collision		
	Backspace String Compare		
16	Print Binary Number		
17	Score Of String		
18	Remove K digits From number		
19	<u>Car fleet</u>		
20	First negative Integer in k sized window		
21	Addition		
22	<u>Gas Station</u>		
23	Maximum sum of smallest and second smallest		
24	Min Stack		
	K stacks in a single array		
	<u>Validate Stack</u>		
	K reverse in a queue		
	largest Pair sum in unsorted array		
20	22. Gast Carrier and Carrier a		
	Linked Lists		
4			
	reverse LinkedList		
	<u>K reverse</u>		
	Floyd cycle		
4	Merge LinkedList		

5 Clone a linkedlist	
6 find modular node	
7 Remove duplicate from sorted	
8 Find the middle element	
9 Nth element from end	
10 LRU Cache	
10 <u>cho cache</u>	
Binary Tree	
1 Inorder Traversal	
2 Preorder Traversal	
3 Postorder Traversal	
4 Print ancestor of given tree	
5 Binary Tree Level Order	
6 Average of levels	
7 All Nodes at distance K	
8 Count bst in a given range	
9 Binary search tree to greater sum	
10 Binary Tree Cameras	
11 Binary Tree Maximum Path Sum	
12 Binary Tree to BST	
13 right side view	
14 Left View	
15 <u>Vertical order</u>	
16 Top View	
17 Bottom View	
18 <u>Diagonal Traversal</u>	
19 leftmost and rightmost node	
20 kth smallest element	
21 Binary Tree Tilt	
22 Print all nodes that dont have siblings	
House robber 3	
24 <u>Boundary Traversal</u>	
Binary search tree	
1 Lowest common ancestor in BST	
2 <u>Lowest common ancestor</u>	
3 square root decomposition	
4 <u>Delete Node in BST</u>	
5 <u>Construct from inorder and preorder</u>	

6 Construct from inorder and postorder	
7 construct bst using postorder	
8 Inorder and level order	
9 serialize and deserialise	
10 <u>Distribute coins in a binary tree</u>	
11 <u>duplicate subtree in a binary tree</u>	
Mixed from tree (General tree, AVL,BST)	
1 AVL tree	
2 image multiplication	
3 Binary TREE longest consecutive sequence	
4 diameter of a tree	
5 <u>Kth smallest element of BST</u>	
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	
11 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 <u>number of subarrays sum exactly k</u>	
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	
1.5 <u>- 1.5 1.0 1.</u>	

17	7 Huffman coding	
	8 Isomorphic string	
	9 Check AP sequence	
	Count Pair whose sum is divisible by k	
	smallest subarray with all the occurence of MFE	
	2 Morning Assembly	
	3 Kth smallest element in sorted 2d matrix	
	4 Kth smallest prime fraction	
	5 Max points on a line	
	6 Brick wall	
	7 Array Pair sum divisibility	
	8 A simple fraction	
	9 Grid illumination	
	10 Insert Delete GetRandom O(1)	
	11 Count of substring with k 1	
	2 Incomplete array	
	Long Pressed Name	
	44 Range Addition	
	15 Max range query	
	6 Magic Squares In Grid	
	Next Greater Element III	
	8 Orderly Queue	
	9 maximum subarray	
	10 K-CON	
	11 Rotate Array	
	Remove Duplicates from Sorted Array	
	3 X of akind in a deck	
	44 merge k sorted array	
	Use Grid illumination	
	6 Kth smallest after removing natural numbers	
	7 rearrange character string such that no two are same	
	8 Longest consecutive sequence	
	9 length of largest subarray with continuous element	
	io length of largest subarray with continuous element 2	
	1 Anagram mapping	
	2 Employee Free time	
	Line reflection	
33	<u>antereneum</u>	
	Heap	
	псар	

1 Binary heap	
2 Build heap from array	
3 Island perimeter	
4 skyline problem	
5 Pairs of coinciding points	
6 trapping rain water	
7 Trapping Rain Water II	
8 Sort a nearly sorted array	
9 <u>bulb switcher</u>	
10 max frequency stack	
11 Sliding window maximum	
12 Swim in rising water	
13 Heap sort	
14 Product of Array Except Self	
15 <u>K empty slots</u>	
16	
17 mathematics	
18	
19 Sieve of Eratosthenes	
20 Segmented sieve	
21 Squares of a Sorted Array	
22 Fast Exponentiation	
23 Fibonacci Number	
24 Container With Most Water	
Searching & Sorting	
1 Segregate 0 and 1	
2 Segregate 0-1-2	
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 <u>Two Sum</u>	
8 <u>Two Difference</u>	
9 LPS	
10 <u>Shortest Palindrome</u>	
11 Boats to Save People	

	Min No. of Platform	
	Maximum Swap	
	Optimal Division	
	Max Consecutive Ones II	
	max consecutive ones 3	
	majority element	
18	majority element 2	
19	majority element general	
20	Reverse vowels of a string	
21	<u>First missing positive</u>	
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	valid pallindrome 2	
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	<u>Icing on cake</u>	
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	smallest divisor given a threshold	

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33 Number of Distinct Islands 34 Number of Islands II Sumber of Islands	31 Castle RUN	
33 Number of Distinct Islands 34 Number of Islands II Sumber of Islands		
34 Number of Islands II		
35 Parallel courses		
	35 Parallel courses	

36 optimize water distribution in village	
37 connecting cities with minimum cost	
or comments of the comments of	
Dynamic programming	
Dynamic programming	
1 Minimize Malware Spread	
2 climbing stairs	
3 Jump game 2	
4 Min cost path	
5 max size subsquare with all 1	
6 0-1 Knapsack	
7 fractional knapsack	
8 longest increasing subsequence	
9 longest increasing subsequence	
10 minimum number of increasing subsequence	
11 <u>building bridges</u>	
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	
37 Partition of sets into k subsets	
38 Can i win	
39 Knight probability	
40 Temple offering	
40 Temple Oriening 41 Highway billboard problem	
42 No. of sequence of type a^i+b^j+c^k	
43 boolean parenthesization  44 Min and require the size of the si	
44 Min and max with + and *	
45 Optimal BST	
46 Find water in glass	
47 cherry pickup	
48 arithmetic slices	
49 arithmetic slices 2	
50 <u>Largest sum subarray atleast k numbers</u>	
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 <u>burst balloons</u>	
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	
Cliding Durale	
Sliding Puzzle  Find the Manifester Flow	
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	
11 As far from land as possible	
11 K-Similar Strings	
12 Similar String Groups	
13 Coloring A Border	
14 Shortest bridge	
15 Min swaps required to sort array	
16 Walls and gates	
17 <u>The maze 2</u>	
Text processing	
1 KMP	
2 Find string roots	
3 Zalgo	
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	
8 Boring factorials	
9 <u>FFT</u>	
Geometry	
1 Erect the fence	
Game Theory	
1 5 Pirates and 100 coins	
2 Nim game	
3 Buddy nim	