Designed By	Surya Pratap Kahar								
Objective of this Sheet	Fast Revision & Preparation in 1 month	Target: MAANG level companies							
Who should not follow this?	Beginners should avoid this sheet								
YouTube Channels	Techdose	Data Structures & Algorithms							
Instagram	@techdose official	System Design Interview Tips							
CHAPTER	TOPIC	PROBLEMS	VIDEO SOLUTION	OTHER LINKS					
	C	ċ	i i						
Bit Manipulation	bitmasking + binary search	Doubling Army July Turn Army to Minimize Sum Difference	Tochdose						
		Maximim XOR of Two Nimbers in an Array							
		Decode XORed Permitation	Techdose	Prerequisite					
		Bitwise AND of Numbers Range	Techdose						
Math algos	Geometry (Convex Hull)	Erect the Fence	Jarvis March Algo	Graham Scan	AM Chain				
	Geometry	Line Intersection problem	Techdose						
		Roman to Integer	Techdose						
	Binary Exponentiation	Pow(x n)	Techdose						
	Catalan Nimber	Unique Binary Search Trees	Techdose						
	To deligion	Donalle Triangle	Tochdoco						
	Calculate IIO	Laskalo Halgie	Decoriosi						
Sorting algos	Radix / Bucket sort	Maximum Gap	Radix sort	Bucket sort					
	Implement sorting algos here	Sort an Array	Selection sort	Bubble sort	Insertion sort	Merge Sort Qu	Quick Sort Counting sort	Radix Sort	Bucket Sort
Array	Quick sort (3-pointer)	Sort Colors	Techdose						
	2-pointer / hashmap	Two Sum	Techdose						
	Kadane's algo	Maximum Sum Circular Subarray	Techdose						
		Merge Intervals	Techdose						
		Next Permutation	Techdose						
	Merge sort (Count Inversion)	Count of Smaller Numbers After Self	Techdose						
	Quick select	Kth Largest Element in an Array	Techdose						
	Binary Search	Search in Rotated Sorted Array	Techdose						
	Binary Search (on range of answer)	Aggressive Cows	Techdose						
	Binary Search (on partition point)	Median of Two Sorted Arrays	Techdose						
	Meet in the middle	Closest Subsequence Sum	Techdose						
	Difference Array	Range Addition	Techdose						
	Prefix Sum	Range Sum Query 2D - Immutable	Techdose						
	Majority Element	Majority Element	Techdose						
	Sliding window	Minimum Size Subarray Sum	Techdose						
	-		- -						
Matrix	Spiral matrix traversal	Spiral Matrix	<u>lecndose</u>	100 document	270 400000				
	Notate Illianix (30, 100,270 deglees)	Dolate Illiage	saarinan na	Saaihan noi	Z O DEGLEGS				
	Binary search / Heap	Kth Smallest Element in a Sorted Matrix	lechdose						
linked List	Group reversal	Reverse Nodes in K-Group	Techdose						
	Defect cycle and start position	Linked List Ovole II	Techdose						
	Implementation	Add Two Numbers II	Techdose						
	Merge Sort	Sort List	Techdose						
		Flatten Binary Tree to Linked List	Techdose						
			000000						

סומסוו א אמסמס		l argest Rectangle in Histogram	a o C C C C a	
	Mondo Gindon	Output of Otherway Minimum	Tobadoo	
	MOHOLOHIC STACK	Suffi of Subarray Milliffiums	HCJ IGOSE	
	Expression evaluation	Basic Calculator II	Techdose	
HashMap		LRU Cache	Techdose	
-		FILCache	Tachdosa	
		y down a mily wared o	Totaledoo	
		Mov Dointo Con Lino	Transcoo	
		MAX FOILIS OIL & FILE	יביוסמס	
		Bunsans Substant	echaose	
		Cinema Seat Allocation	lechdose	
	O	Count Unique Characters of All Substrings of a Given String	Techdose	
Неар		Merge k Sorted Lists	Techdose	
		Sliding Window Maximum	Techdose	
		Find Median from Data Stream	Techdose	
		Process Tasks Using Servers	Techdose	
Backtracking		N-Queens	Techdose	
>		Letter Combinations of a Phone Number	Techdose	
		Generate Parentheses	Techdose	
		Word Sparch II	000000000000000000000000000000000000000	
		Word Search II	asonical association and the second association as the second as the	
Troo		I award Common Anacastar of a Binary Tree	Tochdoo	
ee ee		Lowest Confinon Aricestor of a binary Tree	acontral aco	
		Binary Iree Maximum Path Sum	echdose	
		Binary Tree Pruning	lechdose	
		Sum of Distances in Tree	Techdose	
		All Nodes Distance K in Binary Tree	Techdose	
		Balance a Binary Search Tree	<u>Techdose</u>	
		Flatten Binary Tree to Linked List	Techdose	
		Construct Binary Search Tree from Preorder Traversal	Techdose	
Trie		Implement Trie (Prefix Tree)	Techdose	
		Design Add and Search Words Data Structure	<u>Techdose</u>	
		Word Break II	Techdose	
Segment Tree		Range Sum Query - Mutable	Techdose	
		Range XOR queries	Techdose	
Stripo		String Dermitations	Techdoca	
n I	KMP (Find LPS arrav)	Longest Happy Prefix	Techdose	
	Rolling Hash (Rabin-Karp algo)	Longest Duplicate Substring	Techdose	
Greedy	Same as Minimum platforms problem	Meeting Rooms II	Techdose	
		Two City Scheduling	<u>Techdose</u>	
		Jump Game	<u>Techdose</u>	
		Minimum Deletion Cost to Avoid Repeating Letters	Techdose	
		<u>Gas Station</u>	Techdose	
Graph	DFS	Clone Graph	Techdose	
	BFS (Use BFS for shortest path between 2 points)	Shortest Path to Get Food	<u>Techdose</u>	
	BFS	Detonate the Maximum Bombs	Techdose	
	Cycle Detection	Course Schedule	Techdose	
	Topological Sort	Course Schedule II	<u>Techdose</u>	
	Disjoint Set (Count of -1 in DSUF)	Number of Provinces	<u>Techdose</u>	
	door) officeria	Doscible Biocriffice		