DSA Series by Shradha Ma'am

Series Link : **DSA Series by Shradha Ma'am**

	Mark as Done		Question	Link	Difficulty	Video SOLUTION	Companies	Pre-requisites
ARRAYS	☐	1	Majority Element	Problem Link	Easy	Solution Link	Amazon Google	
	☐	2	Repeat & missing number	Problem Link	Easy	Solution Link	Amazon	Hashing
	☐	3	Merge 2 sorted array without xtra space	Problem Link	Easy	Solution Link	Amdocs Brocade Goldman Sachs Juniper Networks	Sorting
	☐	4	Single Number	Problem Link	Easy	Solution Link		
	☐	5	Stock Buy & Sell	Problem Link	Easy	Solution Link	Amazon DEShaw Directi Flipkart Goldman Sachs Int	
	☐	6	Kadane's Algorithm	Problem Link	Medium	Solution Link	Microsoft Facebook	
	☐	7	Pow xn	Problem Link	Medium	Solution Link		
	☐	8	Container with most water	Problem Link	Medium	Solution Link	Flipkart Dunzo	
	☐	9	Sort array of 0s, 1s & 2s	Problem Link	Medium	Solution Link	Microsoft Amazon MakeMyTrip	Sorting
	☐	10	3Sum	Problem Link	Medium	Solution Link	Adobe Amazon Microsoft Morgan Stanley Samsung	Hashing
	☐	11	4Sum	Problem Link	Medium	Solution Link		Hashing
	☐	12	Search a 2D matrix	Problem Link	Medium	Solution Link		2D Array
	☐	13	Next permutation	Problem Link	Medium	Solution Link	Adobe GoldmanSachs Uber	Sorting
	☐	14	Merge overlapping intervals	Problem Link	Medium		Google	Sorting
	☐	15	Longest substring without repeating	Problem Link	Medium		MorganStanley Amazon	String
	☐	16	Set matrix zeroes	Problem Link	Medium		Microsoft Amazon	Sets
	☐	17	Word search	Problem Link	Medium		Ola GoldmanSachs Google	Recursion
	☐	18	Product of array except itself	Problem Link	Medium	Solution Link	Amazon DEShaw Intuit MorganStanley Flipkart	
	☐	19	Subarray sum equals k	Problem Link	Medium			Hashing
	☐	20	Find Duplicate	Problem Link	Medium	Solution Link	Amazon D-E-Shaw Flipkart Paytm Qualcomm Zoho	LL Cycles
	☐	21	Count Inversions	Problem Link	Medium / Hard		Adobe Amazon BankBazaar Flipkart Microsoft Mynt	Merge Sort
	☐	22	Trapping Rainwater	Problem Link	Hard	Solution Link	Samsung	
	☐	23	Sliding window maximum	Problem Link	Hard		Amazon Directi Flipkart Microsoft Google	Hashing
	☐	24	Reverse pairs	Problem Link	Hard			Merge Sort
	☐	25	Largest rectangle in a histogram	Problem Link	Hard	Solution Link		
BINARY SEARCH	☐	1	Search in rotated sorted	Problem Link	Medium	Solution Link	Microsoft Google Adobe Amazon D-E-Shaw Flipkart	
	☐	2	Peak index in mountain array	Problem Link	Medium	Solution Link		
	☐	3	Single element in sorted array	Problem Link	Medium	Solution Link		
	☐	4	Allocate Minimum Pages (Book Allocation)	Problem Link	Medium	Solution Link	Google Infosys Codenation Amazon Microsoft	
	☐	5	Painter's Partition	Problem Link	Medium	Solution Link		
	☐	6	Aggressive cows	Problem Link	Medium	Solution Link	Adobe	
	☐	7	Median of 2 Sorted Arrays	Problem Link	Hard		Amazon Samsung Microsoft Google	
	☐	1	Valid Palindrome	Problem Link	Easy	Solution Link	Amazon Cisco DEShaw Facebook FactSet MorganSt	
	☐	2	Longest Common Prefix	Problem Link	Easy		Adobe Blinkit Dunzo	
	☐	3	Valid Anagram	Problem Link	Easy		Google Adobe Flipkart Nagarro Media.net Directi	

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STRINGS	☐	4	Reverse Words in String	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	5	Remove All Occurrences of String	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	6	Permutation in String	[Problem Link](#)	Medium	[Solution Link](#)	Adobe GoldmanSachs Uber	
	☐	7	String Compression	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	8	Group Anagrams	[Problem Link](#)	Medium		Samsung Adobe Amazon	
	☐	9	Minimum Window Substring	[Problem Link](#)	Hard		Amazon Google MakeMyTrip Streamoid Technologi	
	☐	10	Kmp Algorithm	[Problem Link](#)	Hard			
	☐	11	Robin Karp	--concept--	Hard			
RECURSION & BACKTRACKING	☐	1	Combination Sum I	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	2	Combination Sum II	[Problem Link](#)	Medium			
	☐	3	Palindrome Partitioning	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	4	Knights Tour	[Problem Link](#)	Medium			
	☐	5	M Coloring	[Problem Link](#)	Medium			
	☐	6	Rat in a Maze	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	7	Subsets II	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	8	Merge Sort	[Problem Link](#)	Medium			
	☐	9	N Queens	[Problem Link](#)	Hard	[Solution Link](#)		
	☐	10	Sudoku Solver	[Problem Link](#)	Hard	[Solution Link](#)		
	☐	11	Count Inversions	[Problem Link](#)	Hard			
LINKED LIST	☐	1	Reverse a LL	[Problem Link](#)	Easy	[Solution Link](#)		
	☐	2	Middle of LL	[Problem Link](#)	Easy	[Solution Link](#)		
	☐	3	Merge 2 Sorted LL	[Problem Link](#)	Easy	[Solution Link](#)		
	☐	4	Check if LL Is Palindrome or Not	[Problem Link](#)	Easy			
	☐	5	Detect Cycle in LL	[Problem Link](#)	Easy	[Solution Link](#)		
	☐	6	Remove Cycle in LL	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	7	Flatten LL	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	8	Clone LL with Random Pointers	[Problem Link](#)	Medium	[Solution Link](#)		
	☐	9	Add 2 Numbers	[Problem Link](#)	Medium			
	☐	10	Reverse Linked List 2	[Problem Link](#)	Medium			
	☐	11	LRU Cache	[Problem Link](#)	Medium			
	☐	12	Rotate a LL	[Problem Link](#)	Medium			
	☐	13	Reverse Nodes in K Groups	[Problem Link](#)	Hard	[Solution Link](#)		
	☐	1	Implement Stack using Queue	[Problem Link](#)	Easy			
	☐	2	Implement Queue using Stack	[Problem Link](#)	Easy			
	☐	3	Next Greater Element I	[Problem Link](#)	Easy	[Solution Link](#)		
	☐	4	Valid Parenthesis	[Problem Link](#)	Easy	[Solution Link](#)		
	☐	5	1st Non Repeating in Stream	[Problem Link](#)	Easy			
	☐	6	Reverse 1st K Elements of Queue	[Problem Link](#)	Easy			

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STACK & QUEUE	☐	7	Time needed to Buy Tickets	Problem Link	Easy			
	☐	8	Next Greater Element II	Problem Link	Medium	Solution Link		
	☐	9	Previous Smaller Element	Problem Link	Medium	Solution Link		
	☐	10	Celebrity Problem	Problem Link	Medium			
	☐	11	Get Min Element from Stack	Problem Link	Medium	Solution Link		
	☐	12	Circular Tour / Gas Station	Problem Link	Medium			
	☐	13	Rotten Oranges	Problem Link	Medium			
	☐	14	Stock Span	Problem Link	Medium	Solution Link		
	☐	15	Max Area in Histogram	Problem Link	Hard	Solution Link		