DSA Practice Sheet

Easy	Ideal Time : 0-30 mins
Medium	Ideal Time : 30-45 mins
Hard	Ideal Time : 40-60 mins (based on Qs)

2-3 Questions each Day

Topics	Question	Companies	Remarks
Arrays	https://leetcode.com/problems/concatenation-of-array/	Samsung+ Morgan Stanley+ Snapdeal + EPAM Systems	
Arrays	https://leetcode.com/problems/shuffle-the-array/	Amazon	
Arrays	https://leetcode.com/problems/kids-with-the-greatest-number-	Amazon	
Arrays	https://leetcode.com/problems/number-of-good-pairs/	Google	
Arrays	https://leetcode.com/problems/how-many-numbers-are-smaller-than-the-current-number/		
Arrays	Maximum and Minimum Element in an Array	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
Arrays	Reverse the Array	Infosys Moonfrog Labs	
Arrays	Contains Duplicate	Amazon Interview Qs	
Arrays	https://practice.geeksforgeeks.org/problems/row-with-max-1s	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal V	Try to see the pattern of 0 and 1's
Arrays	https://leetcode.com/problems/build-array-from-permutation/	Wallmart	
Arrays	https://leetcode.com/problems/add-to-array-form-of-integer/	Swiggy	
Arrays	https://www.codingninjas.com/codestudio/problems/count-inversions_615		
2D Arrays	https://leetcode.com/problems/transpose-matrix/	Ola + Amdocs IQ	
Arrays	https://leetcode.com/problems/find-the-duplicate-number/		Logical Question Hint- Numbers are from 1-n
Arrays	https://leetcode.com/problems/merge-sorted-array/	Lot of companies	Pointers
Arrays	Maximum-Subarray	Microsoft + Facebook Interview Qs	Kadanes Algorithm
Arrays	Chocolate Distribution Problem	Amazon Interview Qs	Binary Search
Arrays	Search in Rotated Sorted Array	Microsoft Google Adobe Amazon D-E-Shaw Fl	Binary Search
Arrays	Best time to Buy and Sell Stock	Amazon D-E-Shaw Directi Flipkart Goldman Sachs Intuit MakeMyTrip Microsoft Ola Cabs Oracle Paytm Pubmatic Quikr Salesforce Sapient Swiggy Walmart Media.net Google	
Arrays	Repeat and Missing Number Array	Amazon Interview Qs	
Strings	https://leetcode.com/problems/reverse-words-in-a-string/		
Strings	https://leetcode.com/problems/check-if-the-sentence-is-pangram		
Strings	https://leetcode.com/problems/maximum-number-of-words-found-in-sentences/		
Strings	Valid Palindrome	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho	
Strings	https://leetcode.com/problems/count-the-number-of-consistent-strings/		
Strings	Remove Consecutive Characters	Samsung + Adobe	
Strings	Longest Common Prefix	Adobe + Grofers + Dunzo Interview Qs	
Strings	Convert a Sentence into its Equivalent Mobile Nu	Adobe	
Strings	Print all the Duplicates in the Input String	Ola + Amdocs IQ	
Strings	Valid parentheses	Google Interview Qs	use Stacks (if possible)
Strings	Valid Anagram	Nagarro Media.net Directi Google Adobe Flipk	Strings and Maps
Searching & Sorting	Permute Two Arrays such that Sum of Every Pair	Samsung	
Searching & Sorting	counting sort	Samsung+ Morgan Stanley+ Snapdeal + EPAM Systems	
Searching & Sorting	find common elements three sorted arrays	MAQ Software Microsoft VMWare	
Searching & Sorting	Searching in an array where adjacent differ by at	TCS Amazon	
Searching & Sorting	ceiling in a sorted array	TCS	
Searching & Sorting	Piar with given difference	Amazon Visa	
Searching & Sorting	Print Subarrays with 0 Sum	Paytm Adobe	Use **Addition** Logic
Binary Search	https://leetcode.com/problems/binary-search/	Lot of companies	
Binary Search	https://leetcode.com/problems/find-peak-elemen	Lot of companies	
Binary Search	https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array/		
Binary Search	Chocolate Distribution Problem	Amazon Interview Qs	Binary Search
Binary Search	Search in Rotated Sorted Array	Microsoft Google Adobe Amazon D-E-Shaw Fl	Binary Search
Map & Sets	https://leetcode.com/problems/two-sum/		
Map & Sets	https://leetcode.com/problems/jewels-and-stone	Amazon Interview Qs	Binary Search
Map & Sets	https://leetcode.com/problems/find-lucky-intege	Microsoft Google Adobe Amazon D-E-Shaw Fl	Binary Search
Stacks & Queues	Implement two stacks in an Array	24*7 Innovation Labs Microsoft Samsung Snapdeal	
Stacks & Queues	Evaluation of Postfix Expression	Amazon + Google + Facebook	
Stacks & Queues	Implement Stack using Queues	Facebook	

Stacks & Queues	Queue Reversal	Amazon + Morgain Stanley
Stacks & Queues	Implement Stack Queue using Deque	Microsoft +Atlassian
Stacks & Queues	Reverse first k elements of queue	Microsoft + Amdocs
Stacks & Queues	Design Stack with Middle Operation	MaQ Software
Stacks & Queues	Infix to Postfix	Amazon + Samsung + Paytm + Vmware inc
Stacks & Queues	Design and Implement Special stack	Amazon Google Microsoft Visa Goldman Sachs
Stacks & Queues	Longest Valid String	Google Microsoft
Stacks & Queues	Find if an expression has duplicate parenthesis o	Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google
Stacks & Queues	Stack permutations check if an array is stack per	Visa
Stacks & Queues	Count natural numbers whose permutation grea	Amazon
Stacks & Queues	Sort a stack using Recursion	Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft
Stacks & Queues	Queue based approach for first non repeating ch	Microsoft Flipkart
Stacks & Queues	The Celebrity Problem	Google + Visa + Apple
Stacks & Queues	Next larger Element	Visa
Stacks & Queues	Distance of nearest cell	Flipkar + Facebook
Stacks & Queues	Rotten-oranges	Facebook
Stacks & Queues	Next smaller element	Codenation
Stacks & Queues	Circular-tour	Codenation Flipkart
Linked List	Reverse Linked List	Sprinklr
Linked List	Linked List Cycle	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAQ Software OYO Rooms Paytm Qualcomm Samsung SAP Labs Snapdeal Veritas VMWare Walmart Adobe
Linked List	Merge Two Sorted Lists	Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Microsoft OATS Systems Oracle Samsung Synopsys Zoho
Linked List	Delete without Head node	Amazon Goldman Sachs Kritikal Solutions Microsoft Samsung Visa
Linked List	Remove duplicates from an unsorted linked list	Amazon Intuit
Linked List	Sort a linked list of 0s-1s-or-2s	Microsoft Amazon MakeMyTrip
Linked List	Multiply two numbers represented linked lists	Amazon
Linked List	Remove nth node from end of list	Accolite Adobe Amazon Citicorp Epic Systems FactSet Hike MAQ Software Monotype Solutions Morgan Stanley OYO Rooms Qualcomm Samsung Snapdeal Flipkart
Linked List	Reorder List	Amazon Microsoft OYO Rooms Intuit
Linked List	Detect and remove loop in a linked list	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAQ Software OYO Rooms Paytm Qualcomm Samsung SAP Labs Snapdeal Veritas VMWare Walmart Adobe
Linked List	Write a Function to get the Intersection Point of t	Amazon
Linked List	Flatten a linked list with next and child pointers	Google
Linked List	Linked list in zig-zag fashion	Micorsoft
Linked List	Reverse a doubly linked list	Walmart
Linked List	Delete nodes which have a greater value on right	Amazon
Linked List	Segregate even and odd Elements in a Linked Lis	Walmart
Linked List	Point to next higher value node in a linked list wit	GeekyAnts
Linked List	Rearrange a given linked list in place	Ola Uber
Linked List	Sort Biotonic Doubly Linked Lists	Morgan Stanley
Greedy	https://www.geeksforgeeks.org/minimum-sum-two-numbers-formed-digits-array-2/	
Greedy	https://www.geeksforgeeks.org/greedy-algorithm-to-find-minimum-number-of-coins/	