

DSA Practice sheet			
Easy	Ideal Time : 0-30 mins	2-3 Questions each Day	
Medium	Ideal Time : 30-45 mins		
Hard	Ideal Time : 40-60 mins (based on Qs)		
Topics	Question	Companies	Remarks
Arrays	https://leetcode.com/problems/concattenation-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-of-candies/	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/tow-with-max-16/	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VM	Try to see the pattern of 0 and 1's
Arrays	https://leetcode.com/problems/build-array-from-permutation/	Walmart	
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 Flipkart	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 Number	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 Flipkart	Strings and Maps
Searching & Sorting	Permute Two Arrays such that Sum of Every Pair is	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 least 1	TCS Amazon	
Searching & Sorting	ceiling in a sorted array	TCS	
Searching & Sorting	Pair 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-element/	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 Flipkart	Binary Search
Map & Sets	https://leetcode.com/problems/two-sum/		
Map & Sets	https://leetcode.com/problems/jewels-and-stones/	Amazon Interview Qs	Binary Search
Map & Sets	https://leetcode.com/problems/find-lucky-integer/	Microsoft Google Adobe Amazon D-E-Shaw Flipkart	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 + Morgan 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 or not	Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google	
Stacks & Queues	Stack permutations check if an array is stack permutation	Visa	
Stacks & Queues	Count natural numbers whose permutation greater than the number	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 character	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 two linked lists	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 List	Walmart	
Linked List	Point to next higher value node in a linked list with one traversal	GeekyAnts	
Linked List	Rearrange a given linked list in place	Ola Uber	
Linked List	Sort Biotonic Doubly Linked Lists	Morgan Stanley	

