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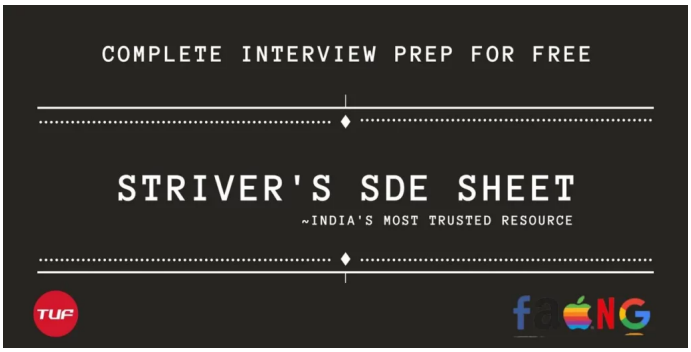
April 13, 2022 ▪ Interviews

Striver's SDE Sheet – Top Coding Interview Problems



Striver's SDE Sheet

(Striver's SDE Sheet – Sheet for the sole purpose of quick revision and preparation in less time focusing on top coding interview problems)

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What is Striver SDE Sheet?

SDE Sheet contains very handily crafted and picked top coding interview questions from different topics of Data Structures & Algorithms. These questions are one of the most asked coding interview questions in coding interviews of companies like Amazon, Microsoft, Media.net, Flipkart, etc, and cover almost all of the concepts related to Data Structure & Algorithms.

Why trust the Striver SDE sheet?

This is sheet is prepared by Raj Vikramaditya A.K.A Striver, Candidate Master, 6*, who has bagged offers from **Google** Warsaw, **Facebook** London, **Media.net**(Directi). He has also interned at **Amazon** India. He is also one of the top educators at Unacademy and was at GeeksforGeeks as well. Not only this, hundreds of students cleared interviews of top companies with the help of this sheet. What are you waiting for?

Disclaimer: *Only start doing these problems if you feel you are comfortable with solving the basic problems of DSA. Once you are, you can*

Recursion Tree Method For Solving Recurrence

Java instanceOf Operator

Java Break Statement

Switch Case Statement in C++

Constructor in C++

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Note: If you find the sheet useful, you can also contribute an article or solution for any problem to be published on takeuforward.org! Click here for more details.

Day 1: Arrays

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
Set Matrix Zeroes	Link 1	YT	Link 2
Pascal's Triangle	Link 1	YT	Link 2
Next Permutation	Link 1	YT	Link 2
Kadane's Algorithm	Link 1	YT	Link 2
Sort an array of 0's 1's 2's	Link 1	YT	Link 2
Stock buy and Sell	Link 1	YT	Link 2

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
Rotate Matrix	Link 1	YT	Link 2
Merge Overlapping Subintervals	Link 1	YT	Link 2
Merge two sorted Arrays without extra space	Link 1	YT	Link 2
Find the duplicate in an array of N+1 integers.	Link 1	YT	Link 2
Repeat and Missing Number	Link 1	YT	Link 2
Inversion of Array (Pre-req: Merge Sort)	Link 1	YT	Link 2

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
Search in a 2d Matrix	Link 1	YT	Link 2
Pow(X,n)	Link 1	YT	Link 2
Majority Element (>N/2 times)	Link 1	YT	Link 2
Majority Element (>N/3 times)	Link 1	YT	Link 2
Grid Unique Paths	Link 1	YT	Link 2
Reverse Pairs (Leetcode)	Link 1	YT	Link 2

Day 4: Arrays Part-IV

Find both C++/Java codes of all problem in the articles in the first column.

	Link 1	Solution	Link 2
2-Sum-Problem	Link 1	YT	Link 2
4-sum-Problem	Link 1	YT	Link 2
Longest Consecutive Sequence	Link 1	YT	Link 2
Largest Subarray with 0 sum	Link 1	YT	Link 2
Count number of subarrays with given Xor K	Link 1	YT	Link 2
Longest Substring without repeat	Link 1	YT	Link 2

Day 5: Linked List

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2

Find the middle of LinkedList	Link 1	YT	Link 2
Merge two sorted Linked List (use method used in mergeSort)	Link 1	YT	Link 2
Remove N-th node from back of LinkedList	Link 1	YT	Link 2
Add two numbers as LinkedList	Link 1	YT	Link 2
Delete a given Node when a node is given.(O(1) solution)	Link 1	YT	Link 2

Day 6: Linked List Part-II

Find both C++/Java codes of all problem in the articles

Problem	Practice Link 1	Video Solution	Practice Link 2
Find intersection point of Y LinkedList	Link 1	YT	Link 2
Detect a cycle in Linked List	Link 1	YT	Link 2
Reverse a LinkedList in groups of size k.	Link 1	YT	Link 2
Check if a LinkedList is palindrome or not.	Link 1	YT	Link 2
Find the starting point of the Loop of LinkedList	Link 1	YT	Link 2
Flattening of a LinkedList	Link 1	YT	Link 2

Day 7: Linked List and Arrays

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
Rotate a LinkedList	Link 1	YT	Link 2
Clone a Linked List with random and next pointer	Link 1	YT	Link 2
3 sum	Link 1	YT	Link 2
Trapping rainwater	Link 1	YT	Link 2
Remove Duplicate from Sorted array	Link 1	YT	Link 2
Max consecutive ones	Link 1	YT	Link 2

Day 8: Greedy Algorithm

Find both C++/Java codes of all problem in the articles

Problem	Practice Link 1	Video Solution	Practice Link 2
N meetings in one room	Link 1	YT	Link 2
Minimum number of platforms required for a railway	Link 1	YT	Link 2
Job sequencing Problem	Link 1	YT	Link 2
Fractional Knapsack Problem	Link 1	YT	Link 2
Greedy algorithm to find minimum number of coins	Link 1	YT	Link 2
Activity Selection (it is the same as N meeting in	Link 1	YT	Link 2

Day 9: Recursion +

Day 10: Recursion and Backtracking +

Day 11: Binary Search +

Day 12: Trie +

Day 13: Stack and Queue +

Day 14: Stack and Queue Part-II +

Day 15: String +

Day 16: String Part-II +

Day 17: Binary Tree +

Day 18: Binary Tree part-II +

Day 19: Binary Tree part-III +

Day 20: Binary Search Tree +

Day 21: Binary Search Tree Part-II +

Day 22: Binary Trees[Miscellaneous] +

Day 23: Graph +

Day 24: Graph Part-II +

Day 25: Dynamic Programming +

Day 26: Dynamic Programming Part-II +

Day 27: Operating System Revision (Refer Sheet for OS Questions) +

Day 29: Computer Networks Revision (Refer Sheet for CN Questions) +

Day 30: Project Overview +

> Hurrah!! You are ready for your placement after a month of hard work without a cheat day.
>
> — ~Striver

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