Shared by Data Works

Cheat Cheat Cheat Cheat

A Workbook to Get You Started with DSA

{Index}

- 1 Which Programming Language Should I Choose?
- 2 Data Structures & Algorithms
- 3 Easy Level Problems
- 4 Medium Level Problems
- 5 Hard Level Problems
- 6 Building Soft Skills
- 7 Bonus: How to Prepare for Interviews

{The Dilemma}

Which Programming Language Should I Choose?



Beginner Problems

Which Programming Language Should I Start With?

Read More



Top 10

Top 10 Programming Languages to Learn

Read More



C++, JAVA or Python

Which one's the Best?

Read More



{Pick your language}



Learn More



Learn More



Learn More



Learn More



Learn More

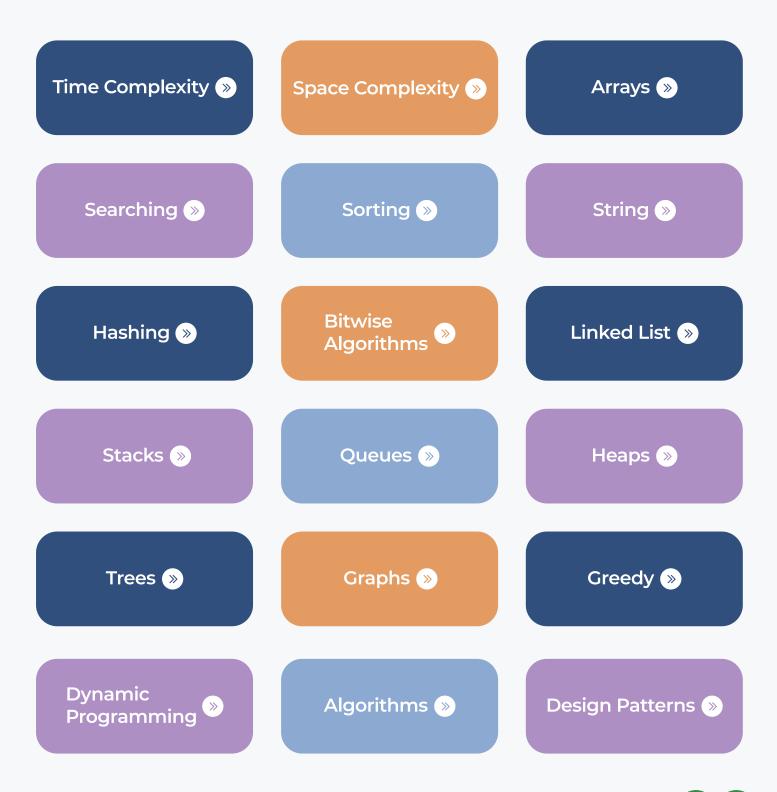


Learn More



{The Frenemy}

Data Structures & Algorithms





{Build your knowledge}

Easy Problems

Use checkboxes to track your progress. Keep practicing, Geek.

Math



Array





Searching



Sorting



Matrix





String



Hashing



Bit Masking





Linked List

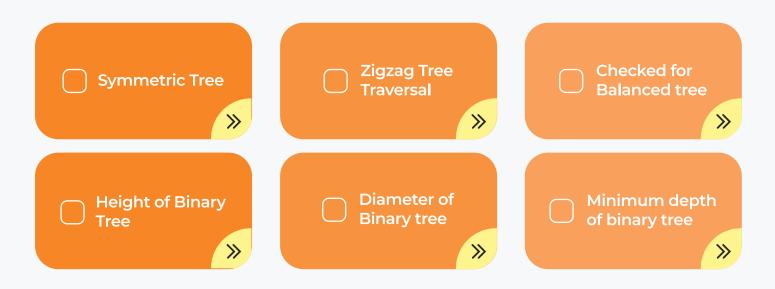




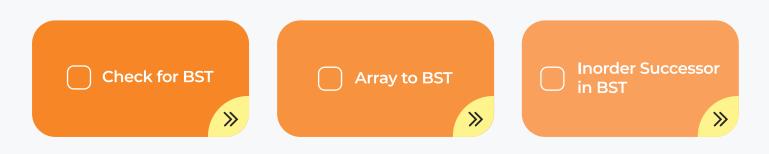
Heap



Binary Tree



Binary Search Tree

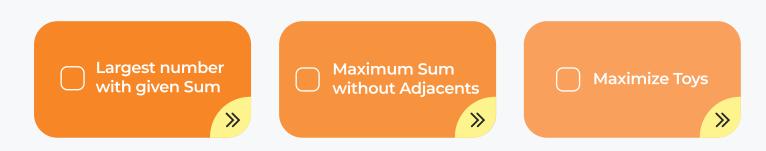




Graph



Greedy

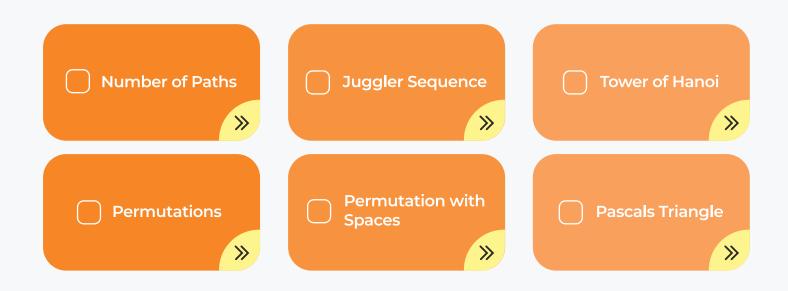


Dynamic Programming





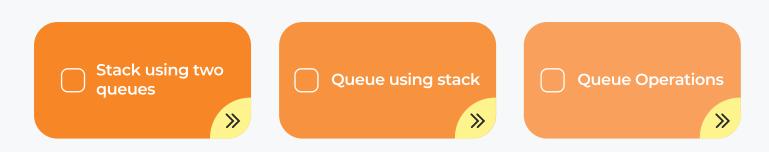
Recursion



Algorithms



Design Patterns





{Let's Step Up a Bit}

Medium Level Problems

Use checkboxes to track your progress. Keep practicing, Geek.

Math

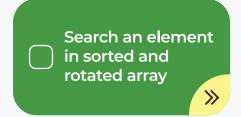


Array





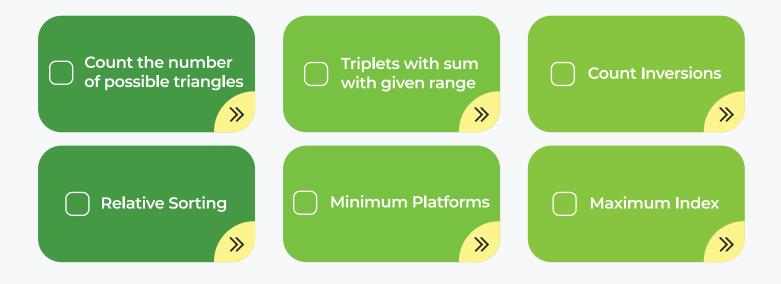
Searching







Sorting



Matrix





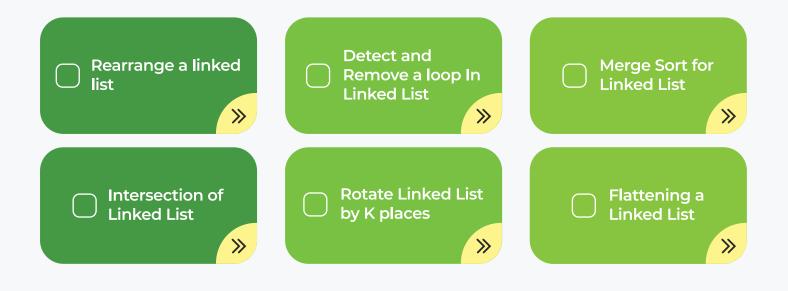




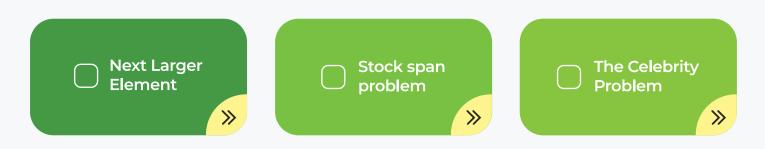
Bit Masking



Linked List

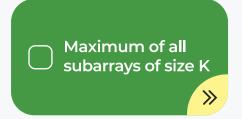


Stack

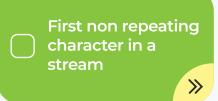




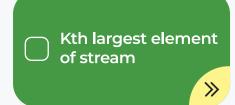
Queue







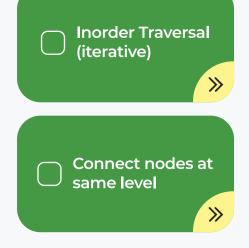
Heap







Binary Tree



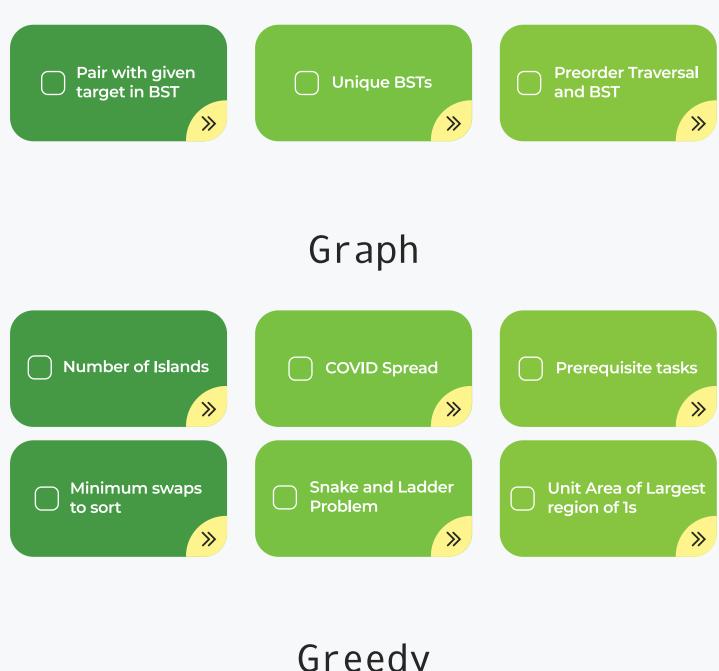
Preorder Traversal (iterative)
»
Boundary Traversal

>>

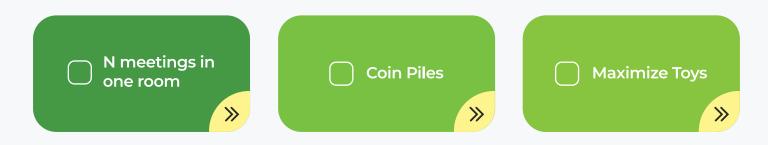
Postorder Traversal (iterative)	
»	
	١
Sum tree	
N N	



Binary Search Tree



Greedy



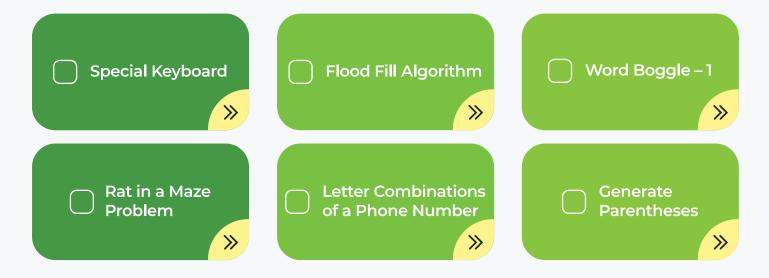




Dynamic Programming

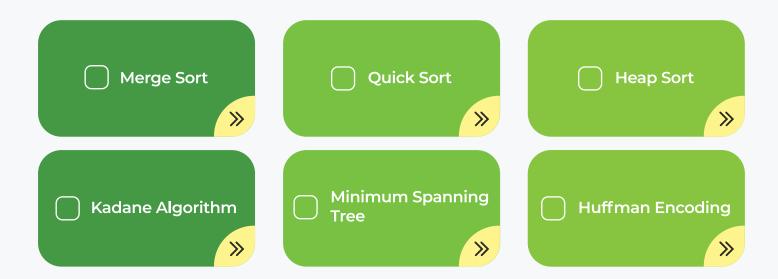


Recursion





Algorithms



Design





{When the Going Gets Tough} Hard Level Problems

Use checkboxes to track your progress. Keep practicing, Geek.

Math

- ☐ Nth Natural Number ≫
- Smallest Positive
 Integer that can
 not be represented
 as Sum
- Generalised
 Fibonacci Number

Array

- Maximum circular
 Subarray Sum
- Merge without Extra Space

>>

Number of subsets
with product less
than K



Searching







String







Bit Masking









Linked List







Stack







Неар









Binary Tree







Binary Search Tree

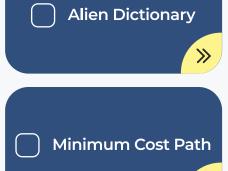






Graph





>>



Word Ladder



Dynamic Programming



Recursion



Algorithms





{The Endgame}

Building Soft Skills

Resume Building-Resources and Tips

Read More



7 Ways to Add Value to Your Resume

Read More



12 Best Resume Do's & Don'ts

Read More





{Bonus}

How to Prepare for Interviews

Tell me about yourself!

Read Answer

What are your strengths & weaknesses?

Read Answer

Why should you be hired?

Read Answer









{Liked the workbook?} Tell us about it!



