Learn DSA in 100 days

Save it first

SWIPE

Day 1

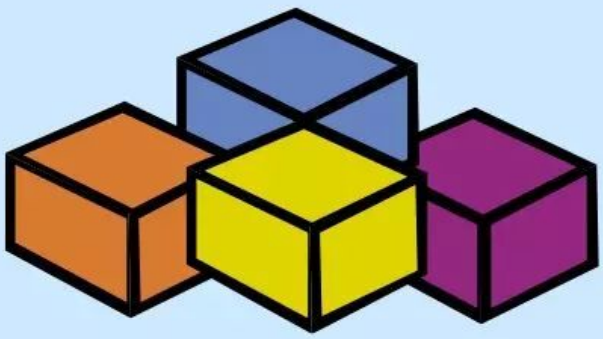
Understand the concept of Algorithmic complexity.You should be able to derive both time and space complexity.

Day 2 to 10

Let's start with some simple data structures,

1. Arrays
2. Linked Lists
3. Strings
4. Stacks
5. Queues

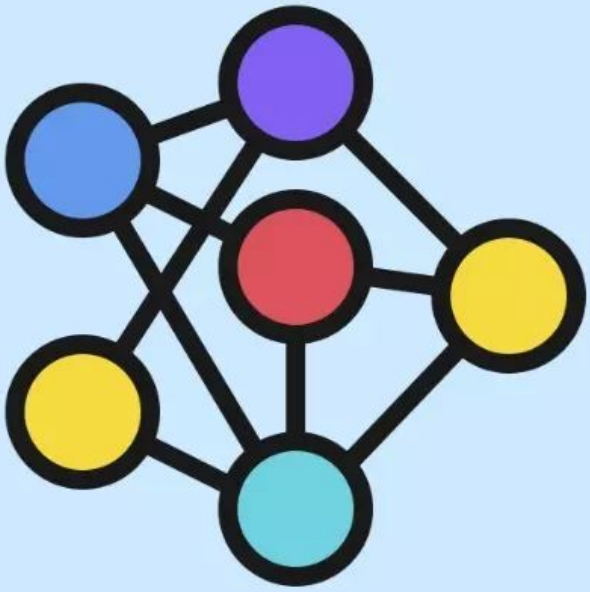
Understand their basic operations (insert, delete, search, traversal) and their complexity - Big-O Algorithm Complexity Cheat Sheet, and code them all.



Day 11 to 25

Let’s now learn some simple algorithms

- Searching
- Sorting
- String
- prime numbers
- Miscellaneous



Day 26 - 50

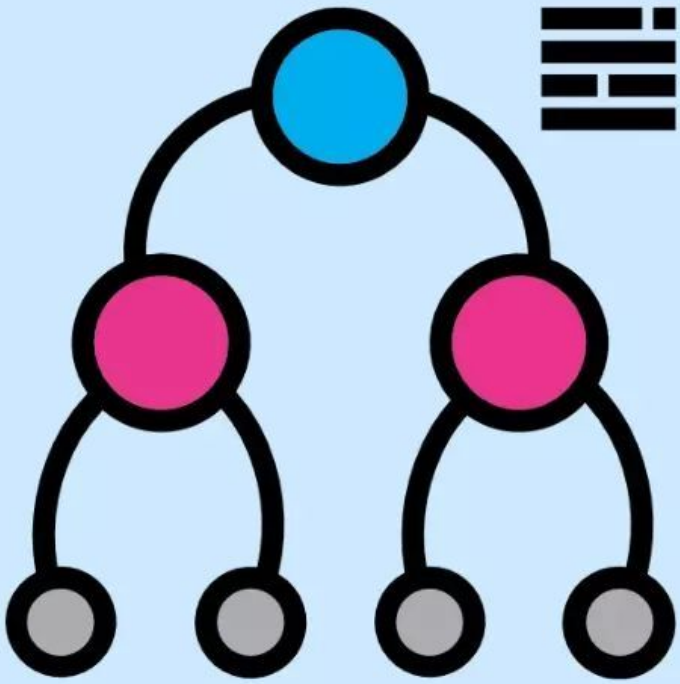
Once you are comfortable with everything above, start doing problems from

- Hackerrank
- Geeks for geeks
- Leetcode
- etc

Day 51 - 60

Let’s learn some non-linear data structures,

- Tree
- Graph
- Hash Table



Day 61 - 90

Refer to the free online resources and start doing problems from trees, hash tables, heaps and graphs.

Day 91 - 100

Understand Computational complexity theory and NP-completeness, Knapsack problem, Travelling salesman problem, SAT problem and so on.

You are now better than most of the CS undergrads. Keep revising the above topics and start competitive programming! Good luck!