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.
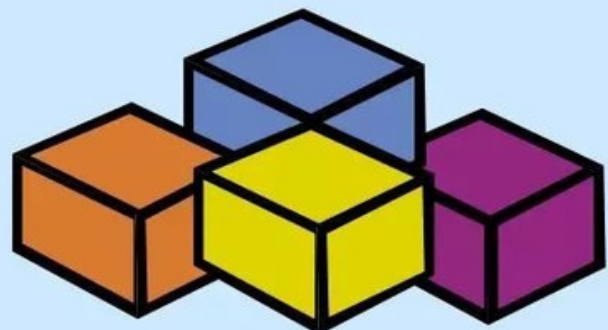
Day 2 to 10

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.
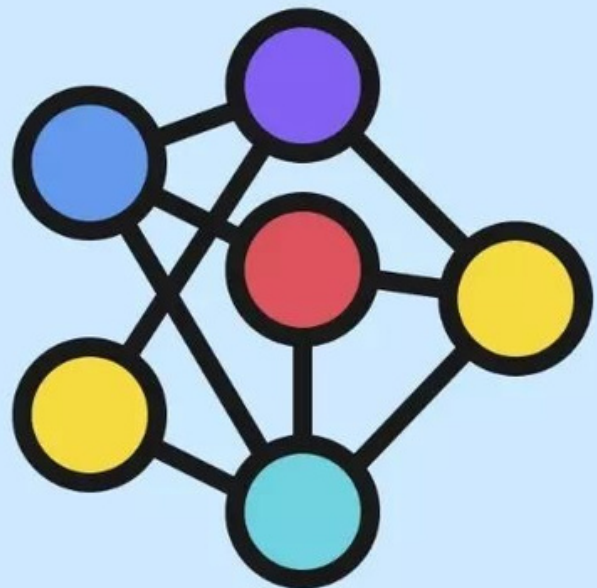
@adarshchetan

Day 11 to 25

Let's now learn some simple
algorithms

- Searching
- Sorting
- String
- prime numbers
- Miscellaneous

@adarshchetan

Day 26 - 50

Once you are comfortable with everything above, start doing problems from
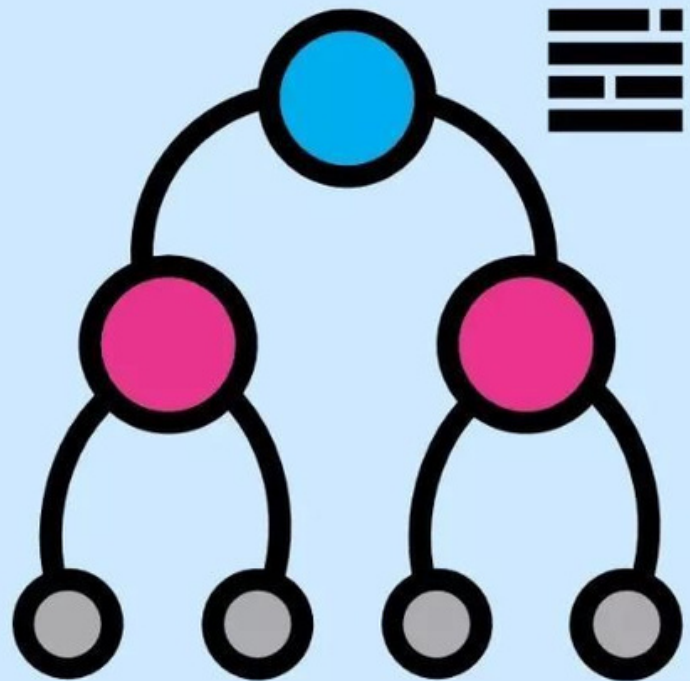
- Hackerrank
- Geeks for geeks
- Leetcode
- etc

@adarshchetan

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.

@adarshchetan

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