NxtEngineer

Roadmap to learn DSA in 100 days

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

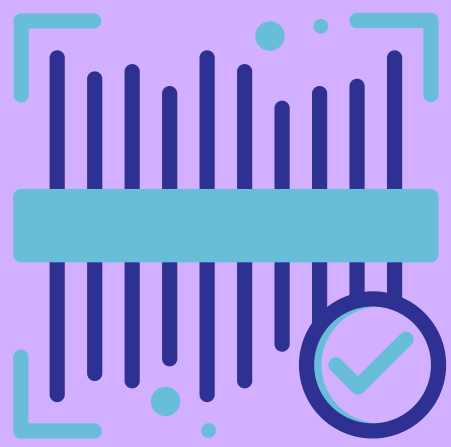
5. Queues

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 to 50

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

- **Hackerrank**
- **Geeks for geeks**
- **Leetcode**
- **etc**

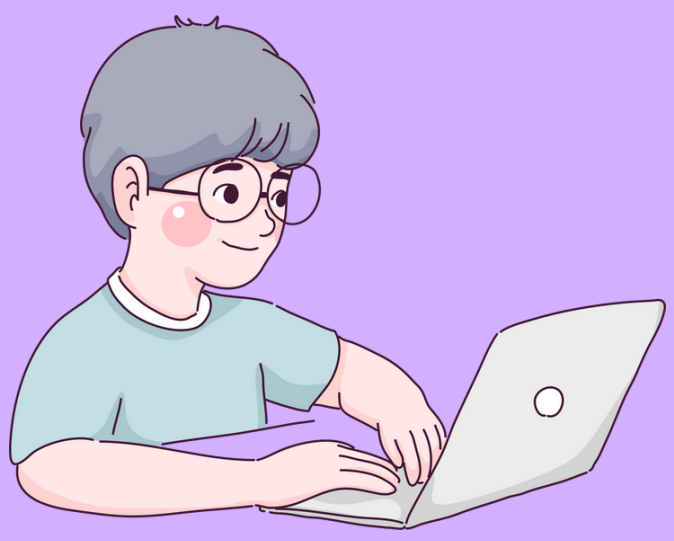
Day 51 to 60

Let's learn some non-linear data structures,

- Tree
- Graph
- Hash Table

Day 61 to 90

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



Day 91 to 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!

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