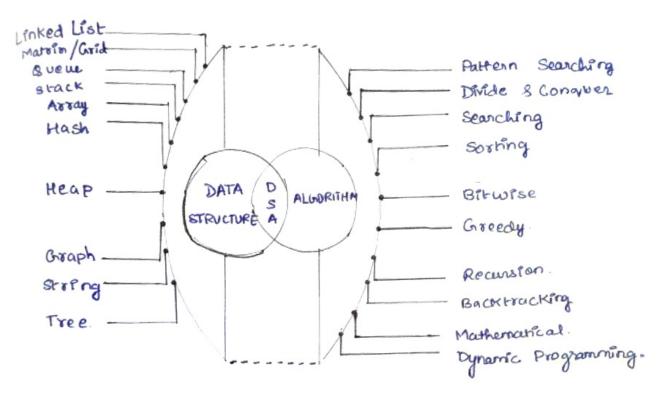
methods for organizing and storing data and the design of procedures for solving problems.

* DSA Stands for Data structures and Algorithms.



- * 5 Steps that we will follow to learn DSA?
 - 1. Learn at least one Programming Language (Mine is Java)
 - 2. Learn about Time and space Complexity (prefer Youtube Code with Havy).
 - 3. Learn Data Structure and Algorithms.
 - 4. Practice, Practise and Consistency follow up . -.
 - 5. Compete start testing and become a Pro.
- * DSA conststs of two parts :-
 - · Data structures
 - · Algorithms

we will move on with data structure First.

Learn Data structures: - They help organize and store data

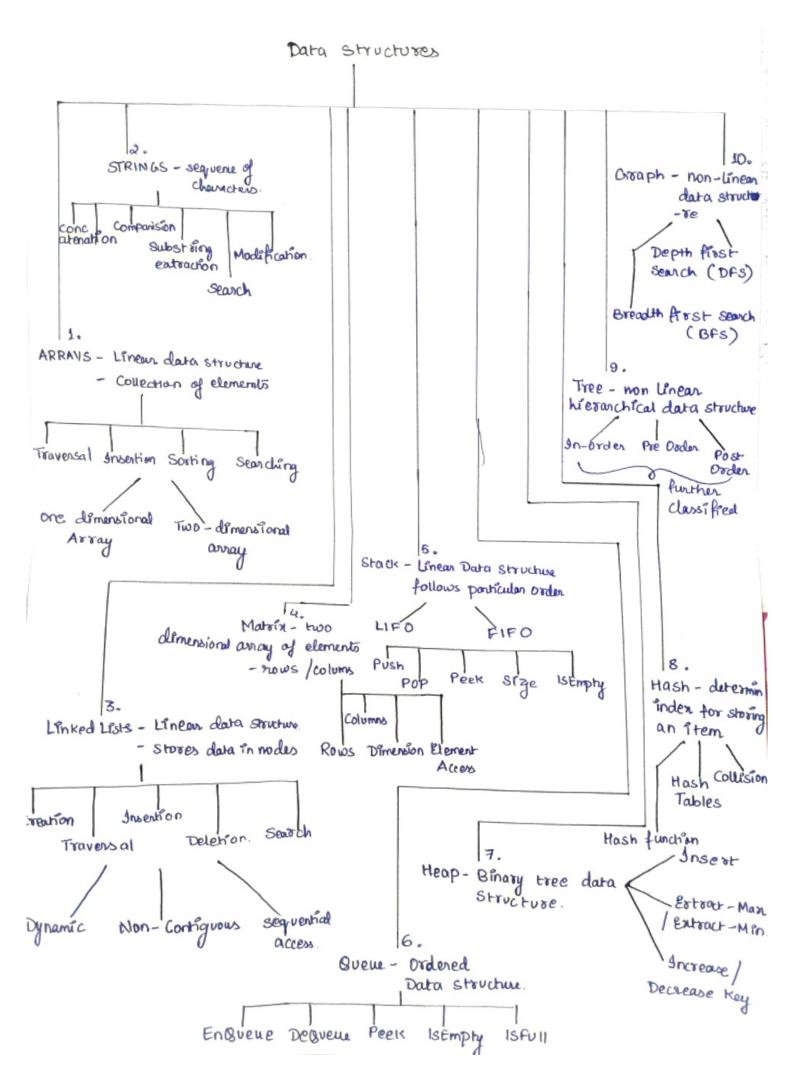
efficiently in compular memory one of

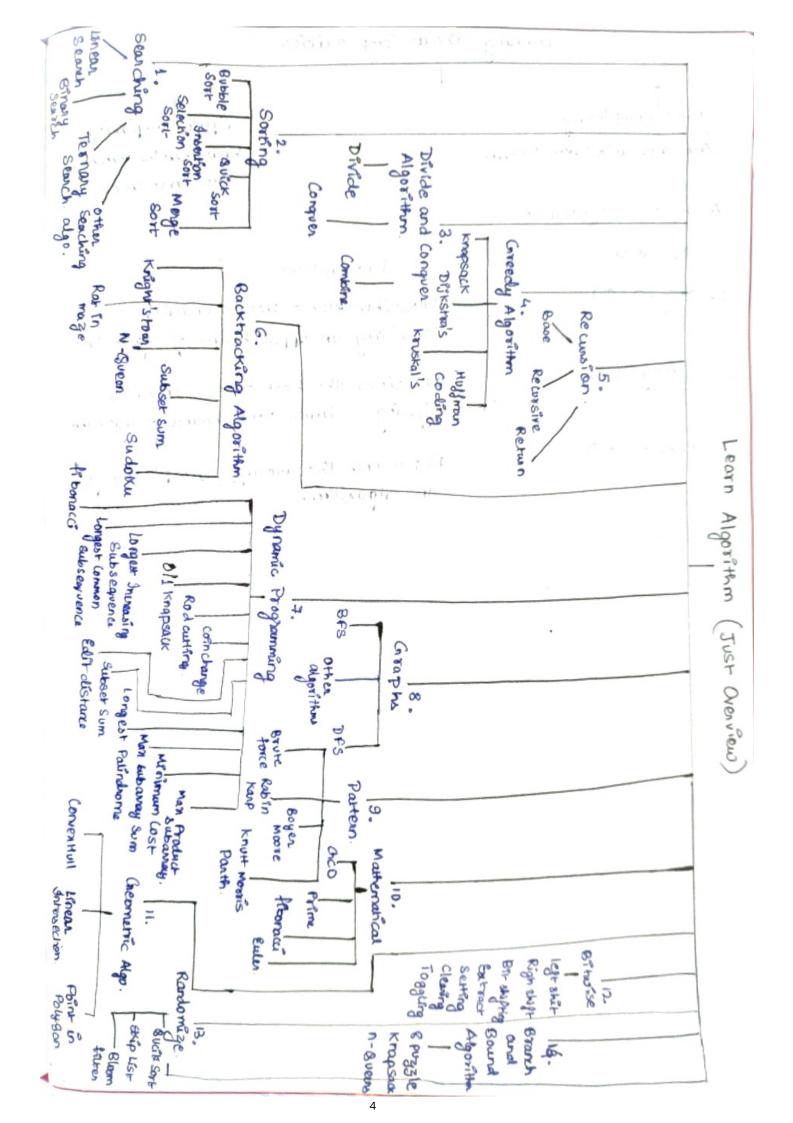
the essential components.

Common structures include array,

Linked Lists, Stacks, Queues, trees

and group hs.





Learning about Complexities.

Time Complexity
Time our code takes torus.

Space Complexity how much memory our code uses

Asymptotic Notation :-

Notation.

- 1. Big -0 (0)
- 2. Omega (-12)
- 3. Thera (0)

Description.

Describes worst case scenario,
Providing an upper bound of algorithm.

Describes the best case scenario, offening a lower time bound of algorithms

Represents the average complexity of an algorithm.