Guidance, Q & A

#MIK

#KhandaaniTareeKa

#bhaibhaibhai

#HardMarkedHai

#LekinHaiEasy

PART - I

#KahaniSuno

#StoryToCode

#codeRatnaNahiHai

#IntuitionZindabaad

⇨ Students getting started with DSA.

↳ How ?

↳ Road Map ?

↳ Any language preference?

"The fundamentals provide a strong foundation that'll support your future learning"

→ Building Blocks

Example :- If you don't know about pointers, there is no way you will be good in topics that deal with pointers.

Linked list, doubly linked list, Tree etc...

- First ensure your fundamentals are strong.
  - Pointers
  - language basics (loop, structs etc.)

DSA.

- DSA is language independent

BUT,

Many people find C++ to be very handy for DSA. Java

- Start with most important topics of DSA

- Sorting Algorithms
- Time & Space Complexity

- Study topic by topic.
  - Arrays
  - Strings
  - Linked Lists
  - Stack → Queue → Map/Set etc

↳ Recursion

↳ Tree

↳ Trie

↳ Heap

↳ Graph

↳ DP

So on....

- what if Array has (DP, recursion etc.) Qns ???

  ↳ Skip them as of now....

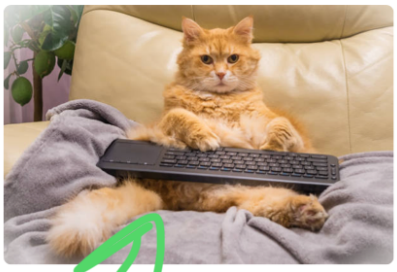
  ↳ If you are studying a topic (say Array), solve solely Array based problem → sorting, rotating, 2-Sum, 3-Sum, 4-Sum etc.

Roadmap to learn any Data Structure (St, Q, Hash, ..., Tree)

"Approved by almost everyone"

Heap Implementation

understand All its operations



Time Complexity of all operations in that Data Structure

Solve !
Solve !
Solve !
Problems