Hari Madhav

23 December 2023 09:05

→ About you - Profile

weekly → meeting updates / session updates

→ fundamentals of DSA

daily → questions & problems

] Session updates

We don't want to waste time

✗ don't do anything you already know well.

→ Questions you are solving updating

- easy
- med
- hard
- V

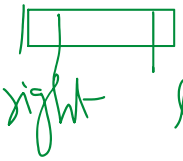
my diffs

- md

→ Array

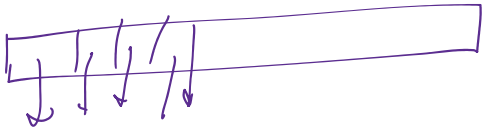
→ linked list

all DS are build on it or it's modification



Trie

Array + Linkedli



Arrays

why we need arrays?

→ family member names → variable

→ villager name → variable

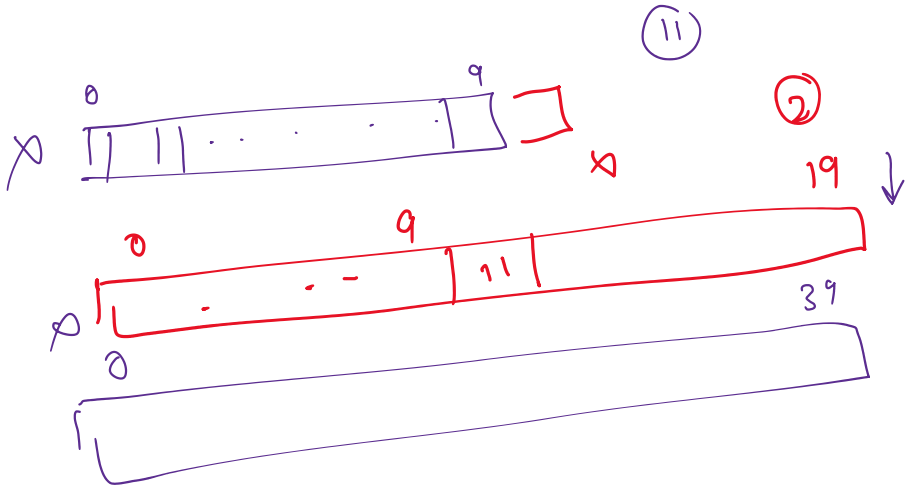
→ all India → not humanly possible with single variables for each

basic operation

Dynamic arrays → fixed sized

variable size

How it works



implement dynamic arrays in Java.

→ solve questions (20%)

correct way

How to solve DSA question

① Always start with Bout force approach

→ code it

memory

(i) Always start with ... → code it

(ii) try to see how I can optimize it / memory

→ different optimal solution

① what all diffent soln's

(iii) always code by yourself

→ use hints

Q ✓

understood question → no approach

↳ give time

approach 12+ hrs

↓

code it on your own

very clear with approach → code ✓ with timer

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① Problems in coding

= (i) more time to understand question - codeforces

= (ii) time to think approach → practice

= (11) time to this approach → practice

= (1m) approach to code

typing speed

Next Topic

Linked Lists

Arrays solves problem faced by single variable

→ solves problem faced by array

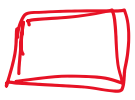
① Why we need linked

→ S/F for a class

↳ array

① blood donation

↳ linked lists



2 mB

Contiguous

① basic operation

↳ traversal

i, d, s

start, end, middle

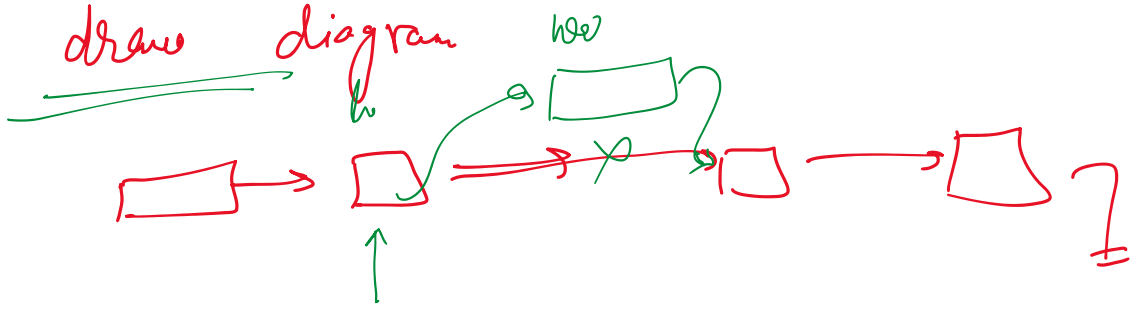
insertion deletion

① single
② double
③ circular

doubly circular

3) circular
doubly circular

1) Reversal of linked list → on your fingertips



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solve questions

1. done ll with random point
2. reverse nodes in group of k

Concept & Coding
- HLD
- LLD

Arpit Bhayani system

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1) Recursion → dp → optimization on recursion
→ backtracking
→ tree

→ graph

easily visualize it → draw as much as possible

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① Stack, Queue

↳ implement using array & linked list both

→ some ques

② Trees

↳ traversal → visualize – draw

question

○ Nov

Sunday | Rest ② 10 Am → Rest