Ritik Ramuka (M3 instructor)

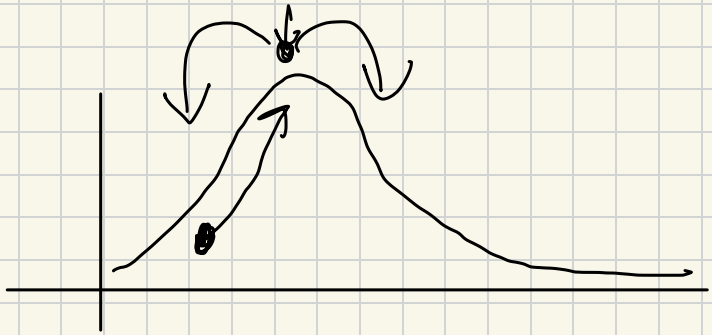
- 3.5 years DSA Mentoring {1.5 years}
  - Pepcoding {DSA, ML/AI, Blockchain team lead}
  - Boss Coder {7m, DSA}
  - Accio {1.7 years, DSA, DM}

- Software Engineer at Microsoft. {BLR}
- twice interned at Microsoft
- 2023 CSE Grad, {MSIT, New Delhi}

Module 3.

Stacks (3)
Queue + Stacks (2)
Binary Search (3)
Hashing (4)
Binary Trees (4)
Revision (2)

16



Module 3

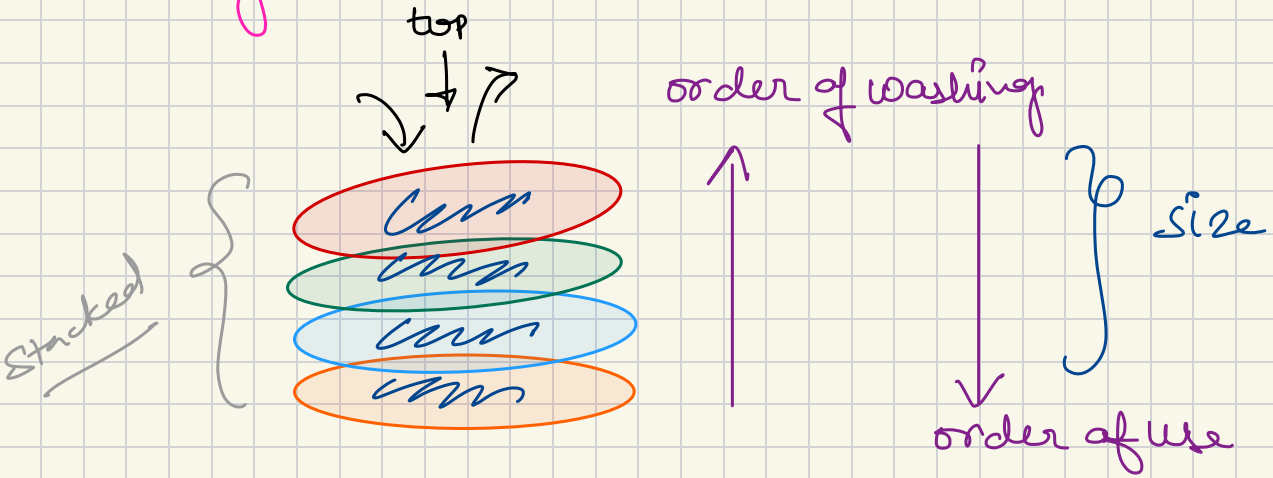
Lc/gfg → 60

20 (Hard)
30 (Med)
10 (Easy)

Stacks { linear Data Structure }

- arrays
- Linked list
- arrayList
- doubly Linked list
- String
- StringBuilder

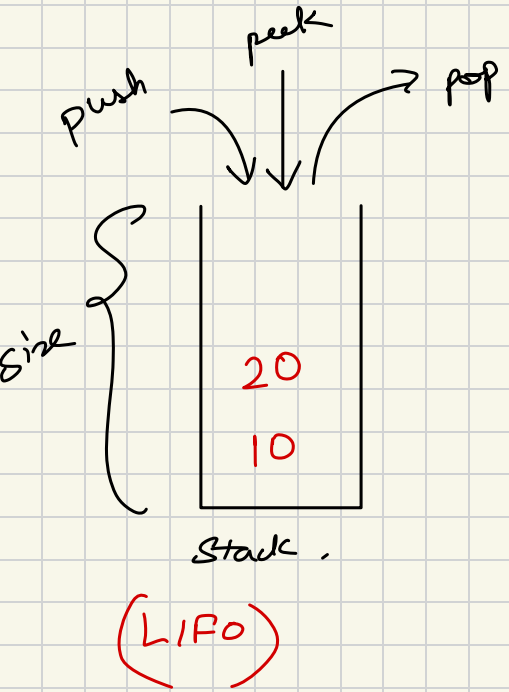
washing dishes



Last dish washed, is first to be used

LIFO

last in, first out



(LIFO)

push(10)

push(20)

push(5)

size() ⇝ 3

pop() ⇝ 5

peek() ⇝ 20

Stack

class in Java

```
Stack<E> stack_name = new Stack();
```

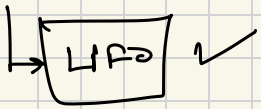
generics

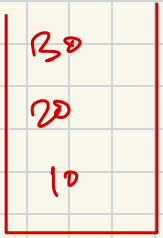
TC: O(1)
SC: O(1)

Methods

- push(V)
- pop()
- size()
- peek()

Own Stack Class

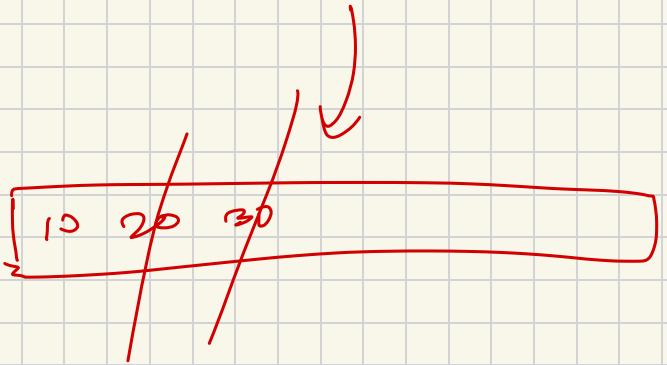
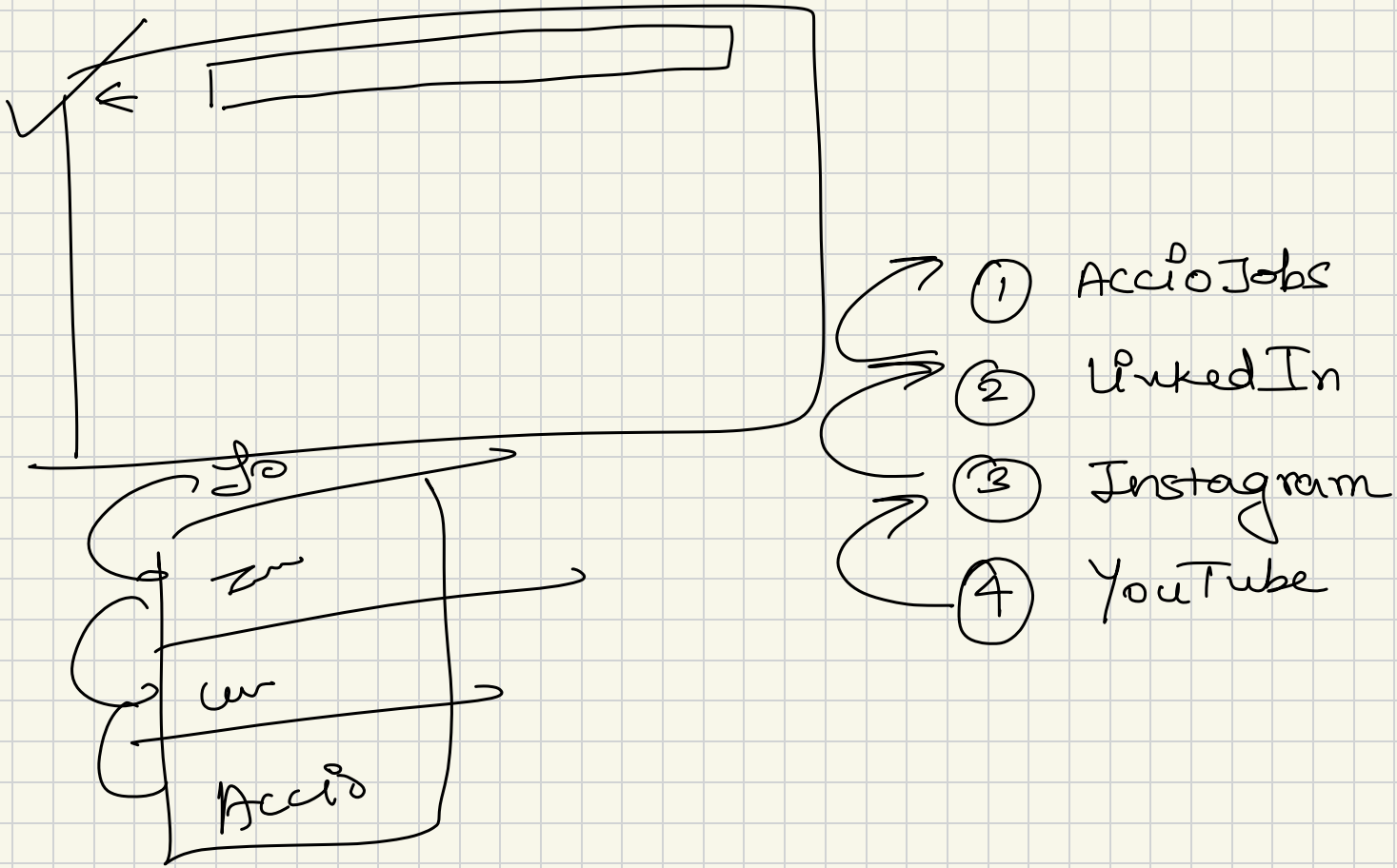




10

20

30



Browser History