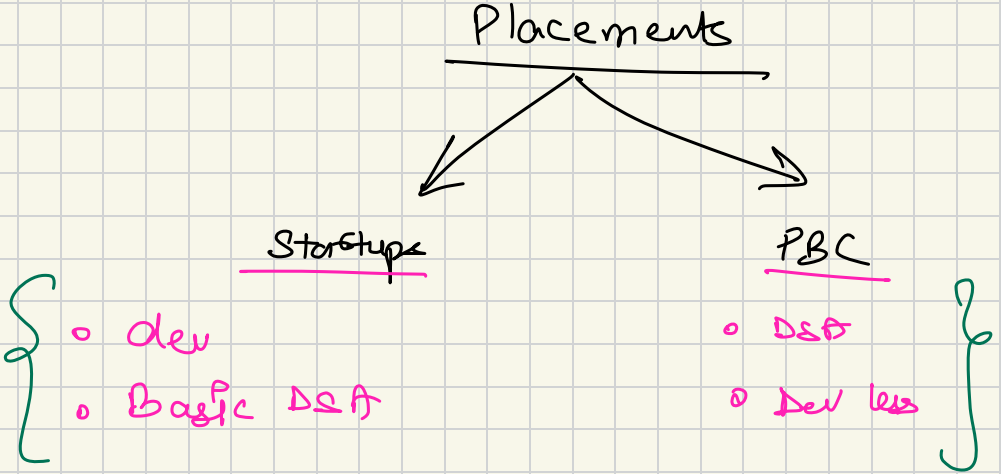
Ritik Ramuka (SWE at Microsoft)

- 3.5 years in DSA mentoring
- prev interned at Microsoft



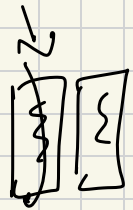
DSA the right way?

Data Structure and **Algorithm**

Way of organizing your data.

Steps to reach a sol^{n}.

shelf



timings 8 pm - 11 pm { 15 min }

Module 3 topics

- Stack → 4
- Queue + Stacks → 2
- Binary Search → 3
- Hashing → HashSet, HashMap → 4
- Binary Trees → 4

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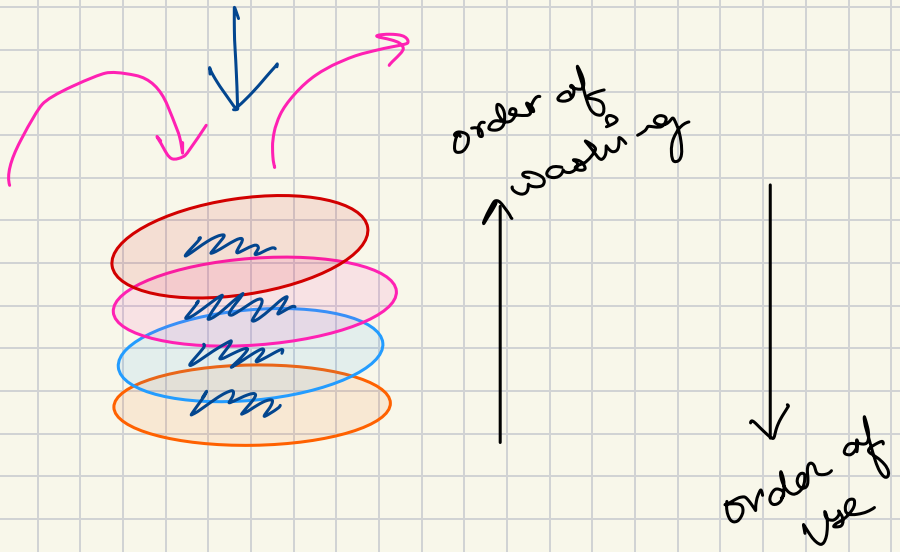
Stack { linear Data structure }

- Arrays
- ArrayList-
- LinkedList
- doubly LinkedList-
- String

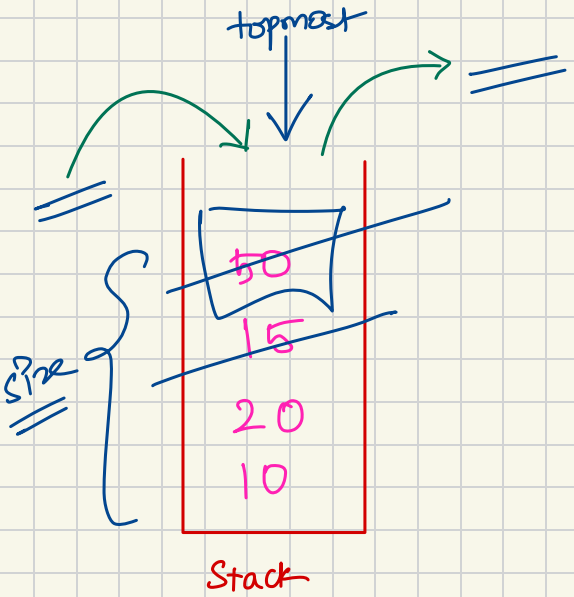
Stack: keep one above each other



Last dish washed will be the first to be used.

LIFO

↳ last in, first out.



add 10 to the stack
add 20 to the stack
add 15 to the stack
add 50 to the stack

remove() ⇝ 50
remove() ⇝ 15

Methods in Stack

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

generic

↳ Wrapper classes | User defined classes

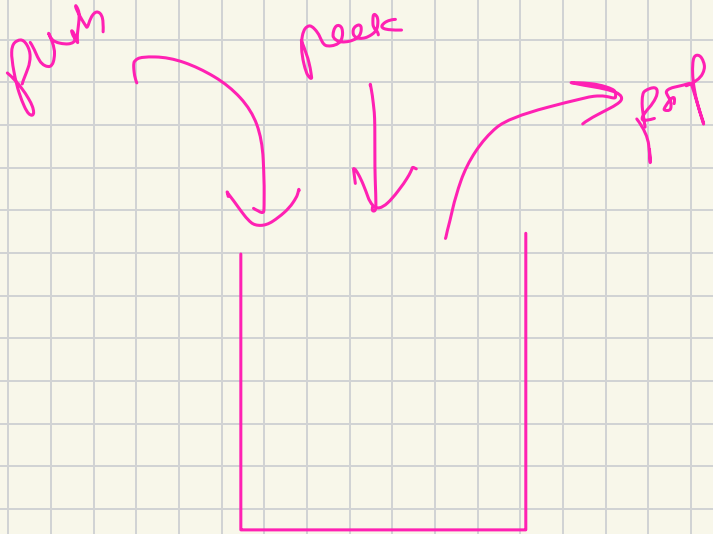
Method

push() : adds element to the topmost pos of stack

pop() : removes element from the topmost pos of stack

peek() : tells the topmost element of the stack

size() : tells the size of stack


push
peek
pop