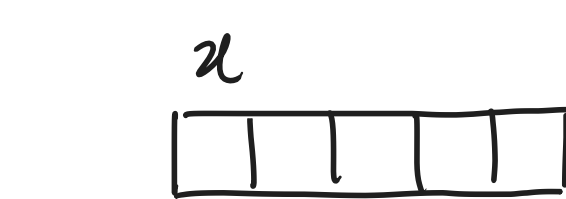


Linear Data Structures Continued.... [Classes]

Stack \rightarrow [LIFO] (Last In First Out) (Stack)

Applications \rightarrow Reversal Operations java.util

example \rightarrow ① Palindrome Check ② Queue Reversal



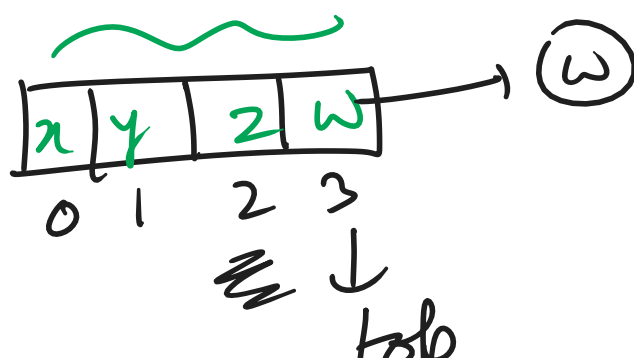
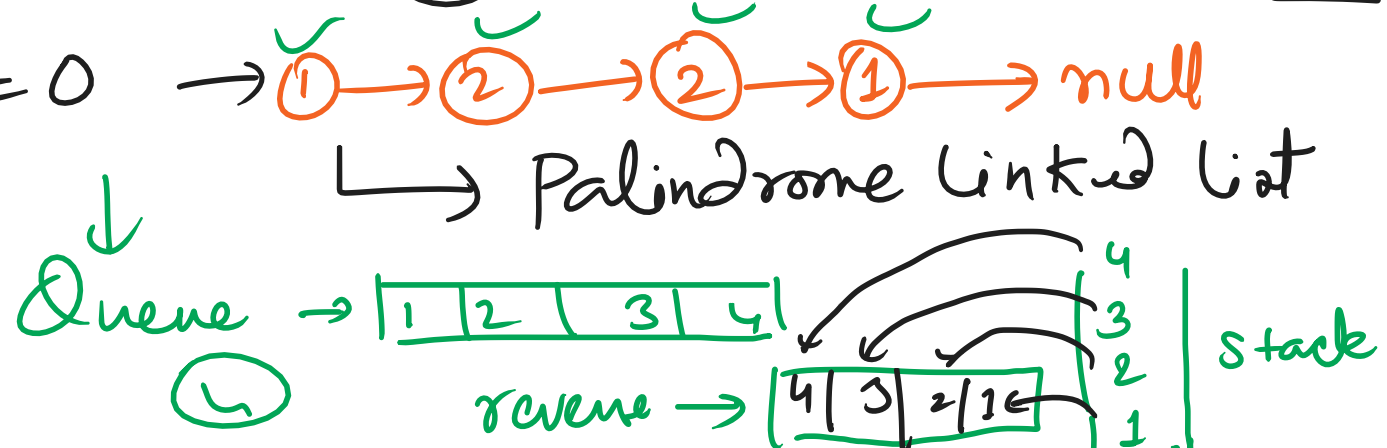
empty
top = -1 + 1 = 0
top++

#include <stack>

Size()

(top+1)

push(), pop(), size(), empty(), full()



top = -1
-1 + 1 = 0
size = 0

Strings (1) \rightarrow Create a generic stack which can accept any data. (6-8 LPA)

A/C

||

Infra

Annotations?

@Override

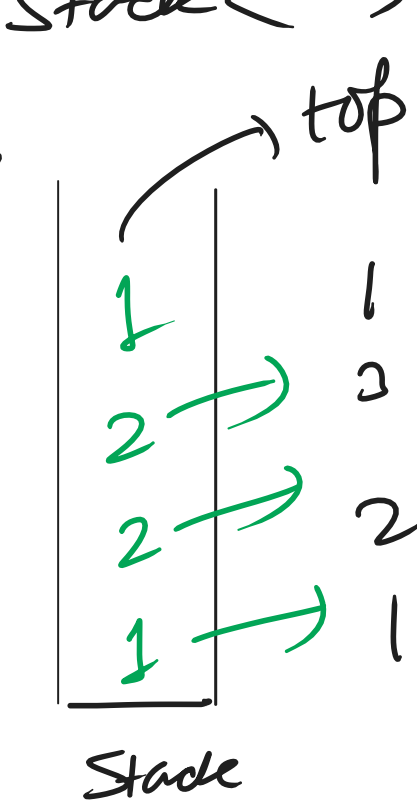
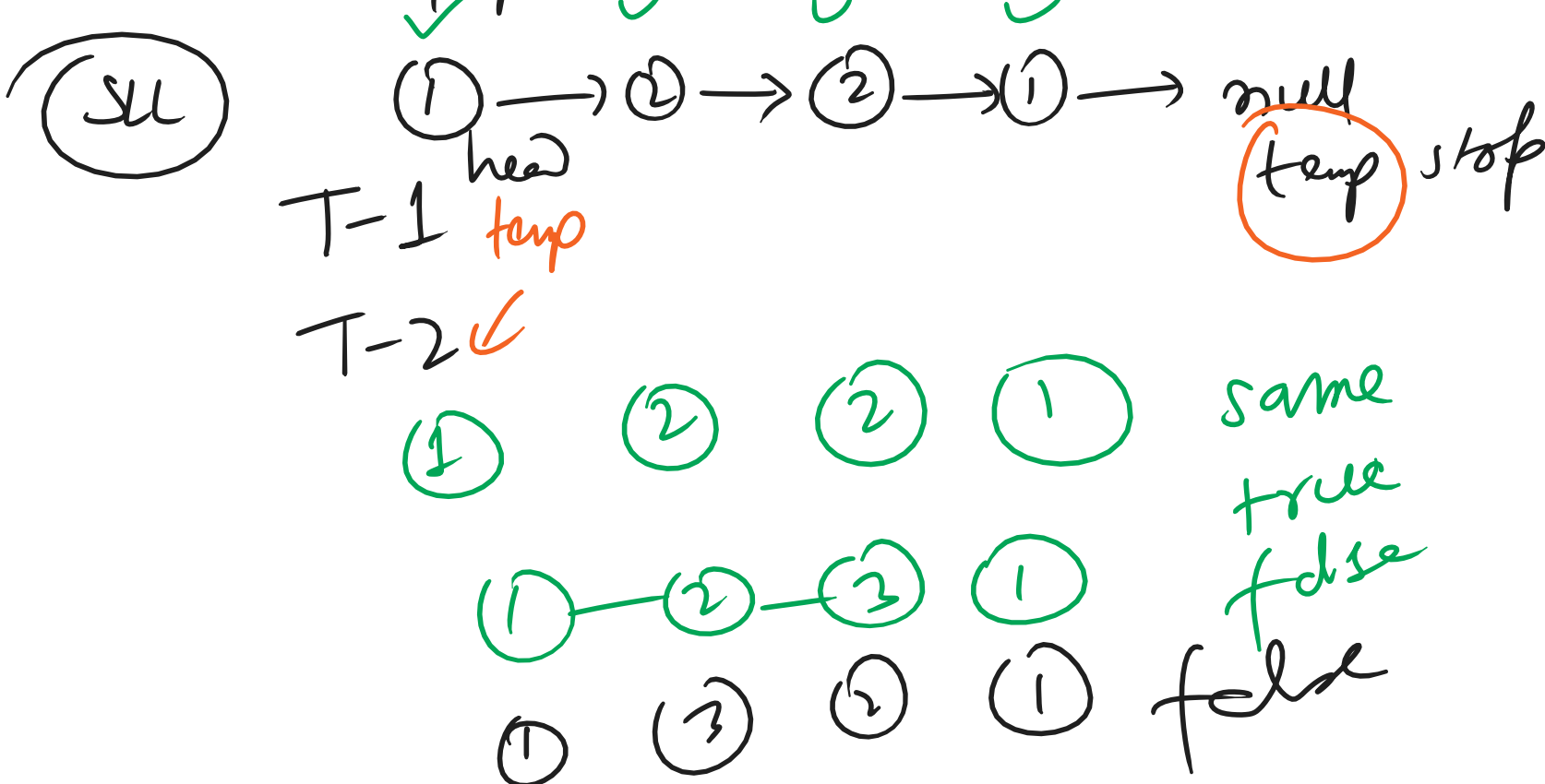
Generic \rightarrow <T>

Wildcards <?>

(Object)

(Linked List + Stack)

Linked List Palindrome



Leet Code Questions on Linked Lists:

- ① Middle node of a linked list
- ② Delete middle node of linked list

[Floyd's Algorithm \rightarrow] (slow & fast pointer)

The Hare & Tortoise Algorithm

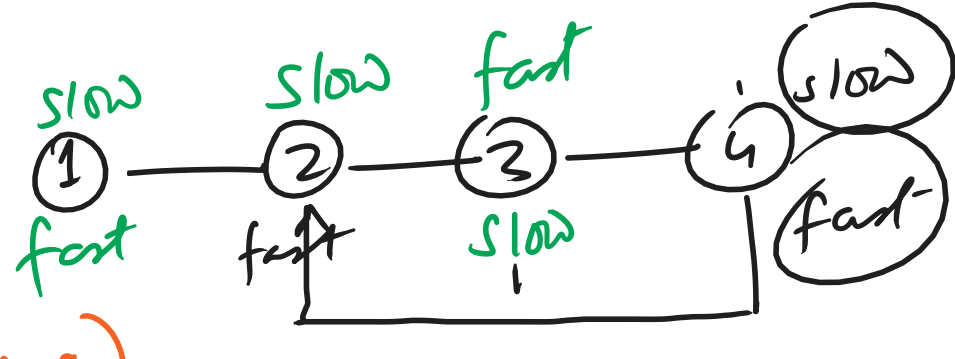
- ③ Cycle detection in a linked list
- ④ 1, 2, 3 | 4, 5, 6 \rightarrow Sum + carry

6 LPA - 22 LPA - 46 LPA

1823

(Josephus Problem)

Leet Code Coding Ninjas



(Floyd's Hare & Tortoise Algo)

slow = head
fast = head

while (fast && fast.next != null)
slow = slow.next;
fast = fast.next.next;
if (slow == fast);
return true;
return false;

