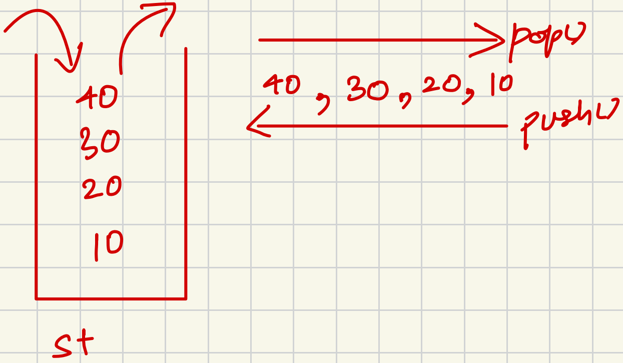
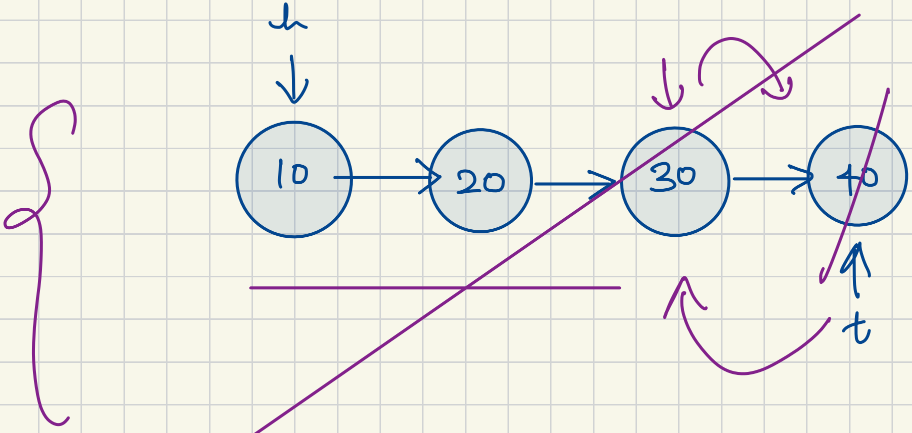
Design a Stack using Linked List



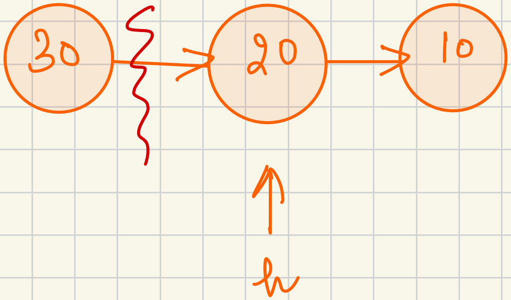


not optimized

push → addLast()

✓ pop() → removeLast()

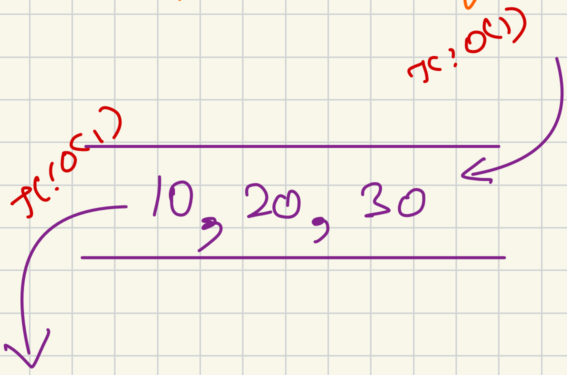
TC: O(N)
SC: O(1)

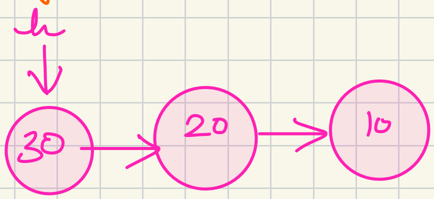


push() → addFirst() { TC: O(1)
SC: O(1)

pop() → removeFirst()
{ TC: O(1)
SC: O(1)

- Implement a queue using linked list.



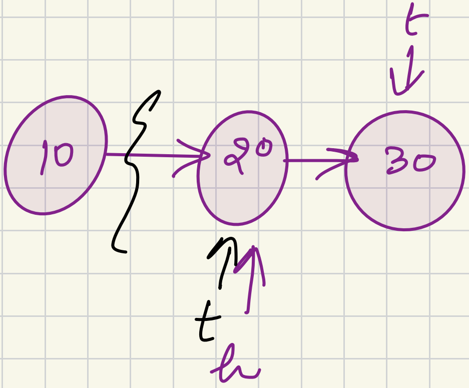


add() → addFirst()

remove() → removeLast()

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

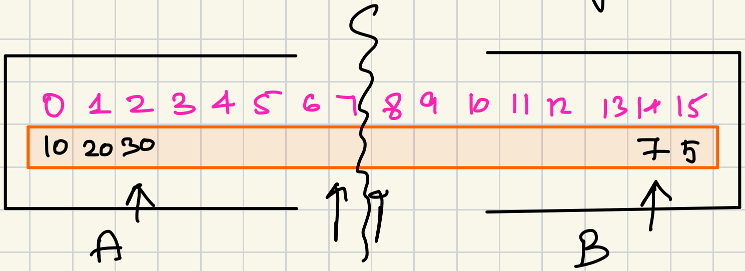
NOT OPTIMIZED



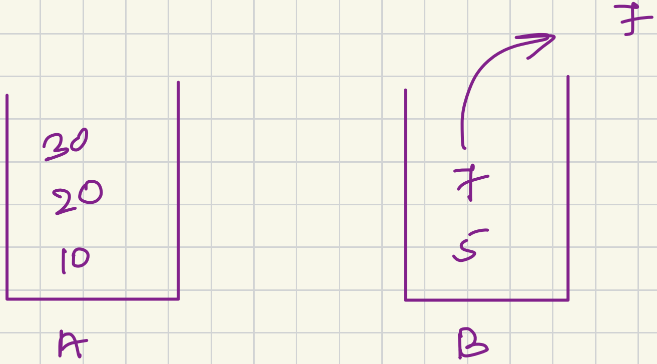
✓ add() : addLast() { TC : O(1)
SC : O(1)

✓ remove() : removefirst() { TC : O(1)
SC : O(1)

implement 2 stacks within an array

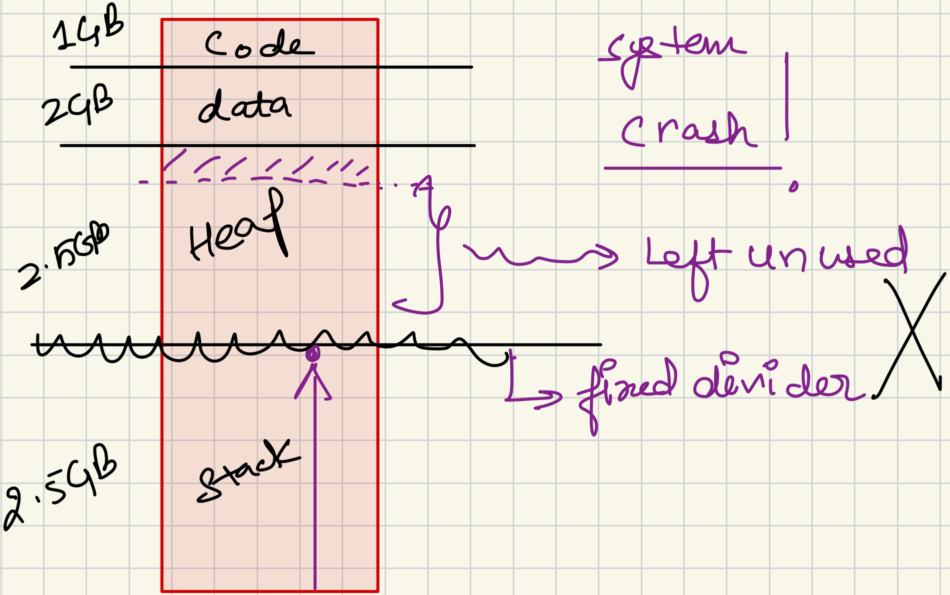


doubt?

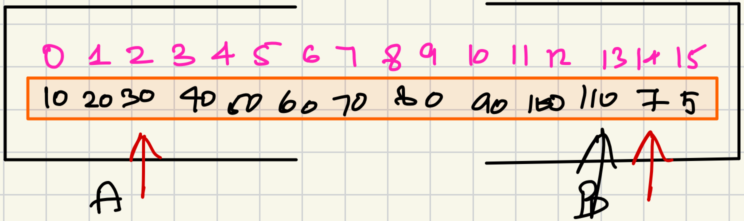


OS

8GB



variable divider



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

10 20 30 40 50 60 70 80 90 100 110 7 5

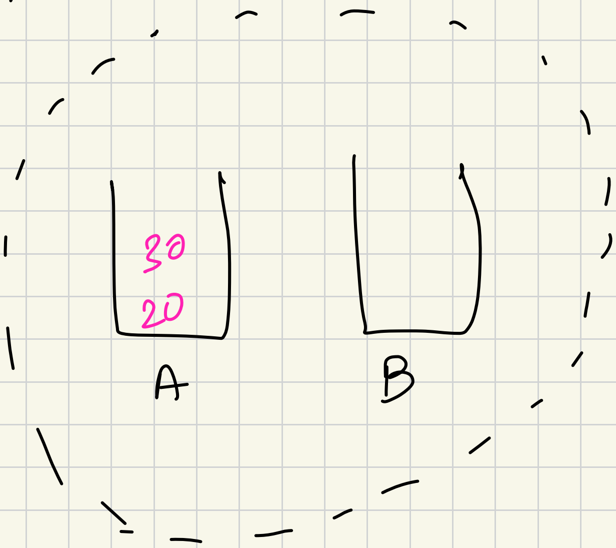
Implement Queue using 2 Stack

Enqueue TC : O(1)
Dequeue TC : O(N)

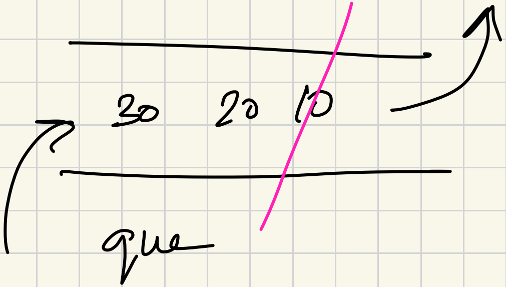
Dequeue TC : O(1)
Enqueue TC : O(N)

Enqueue TC: O(1)

Dequeue TC: O(N)



10



10, 20, 30

H. W. :

1. Winner of the circular game
2. Height Problem