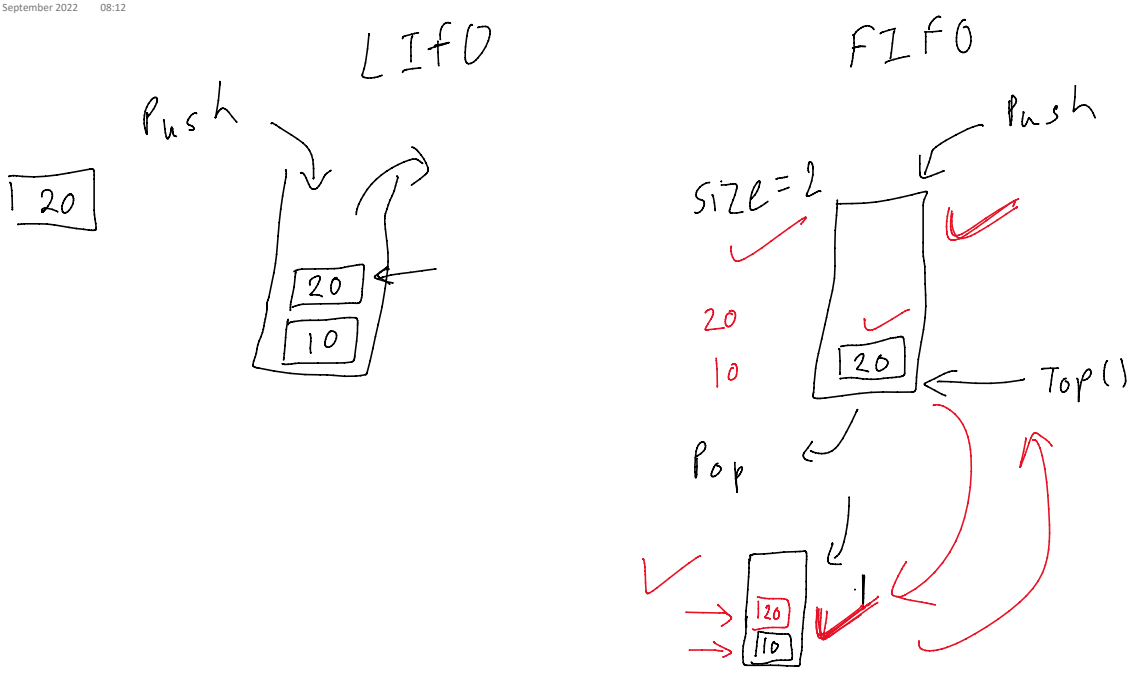
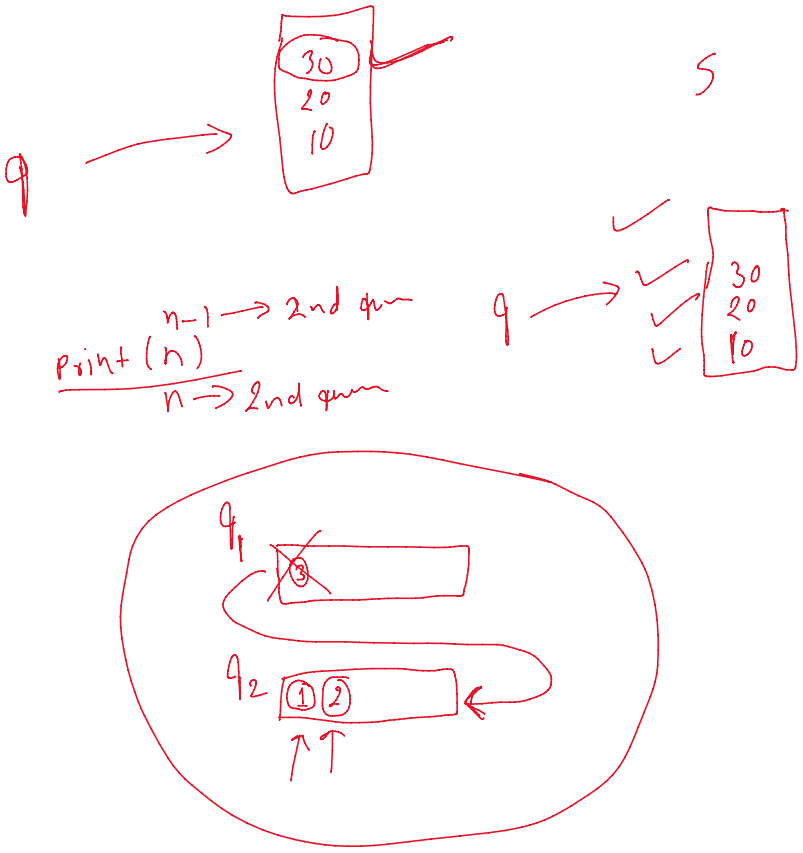
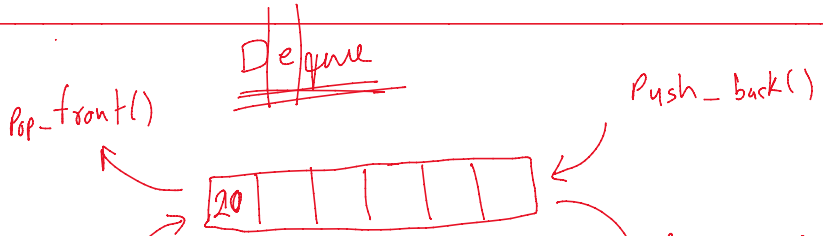
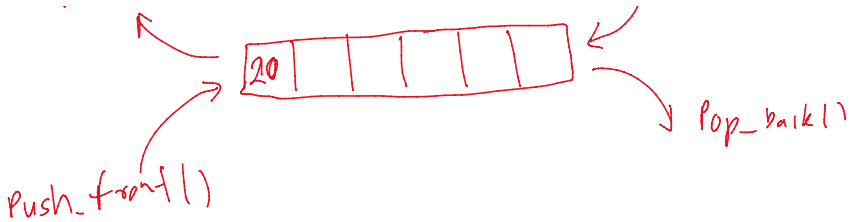
Day 23 - Stack & Queue

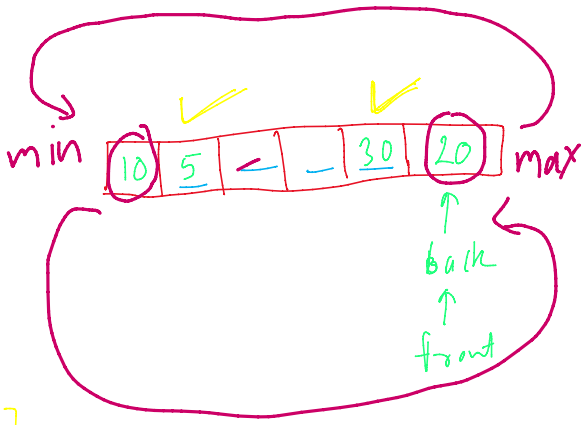
10 September 2022 08:12











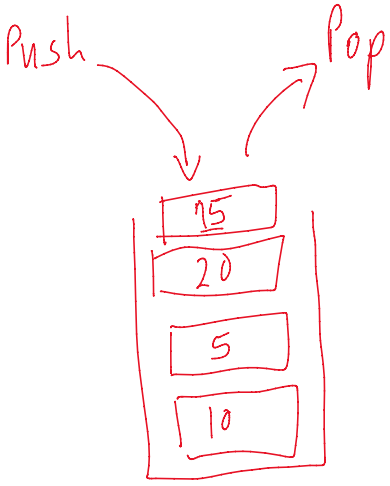
size = 0
capacity = 6
front = -1
back = 6

Push_front(10)
Push_back(20)
Push_front(5)
Push_back(30)

front() → arr[front]
back() → arr[back]

arr[++front] = ele
arr[--back] = ele

front--; Pop_front()
back++; Pop_back()

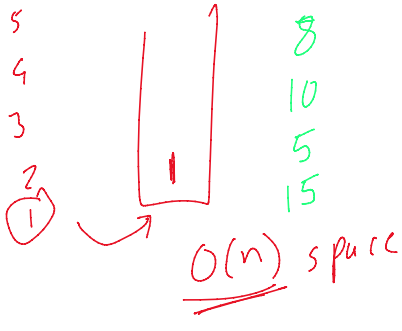


10
5
20
15

min_top() → 5

top() → 15
Push()
Pop()

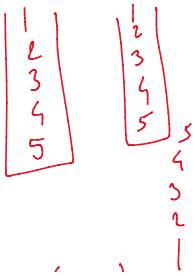
O(1)

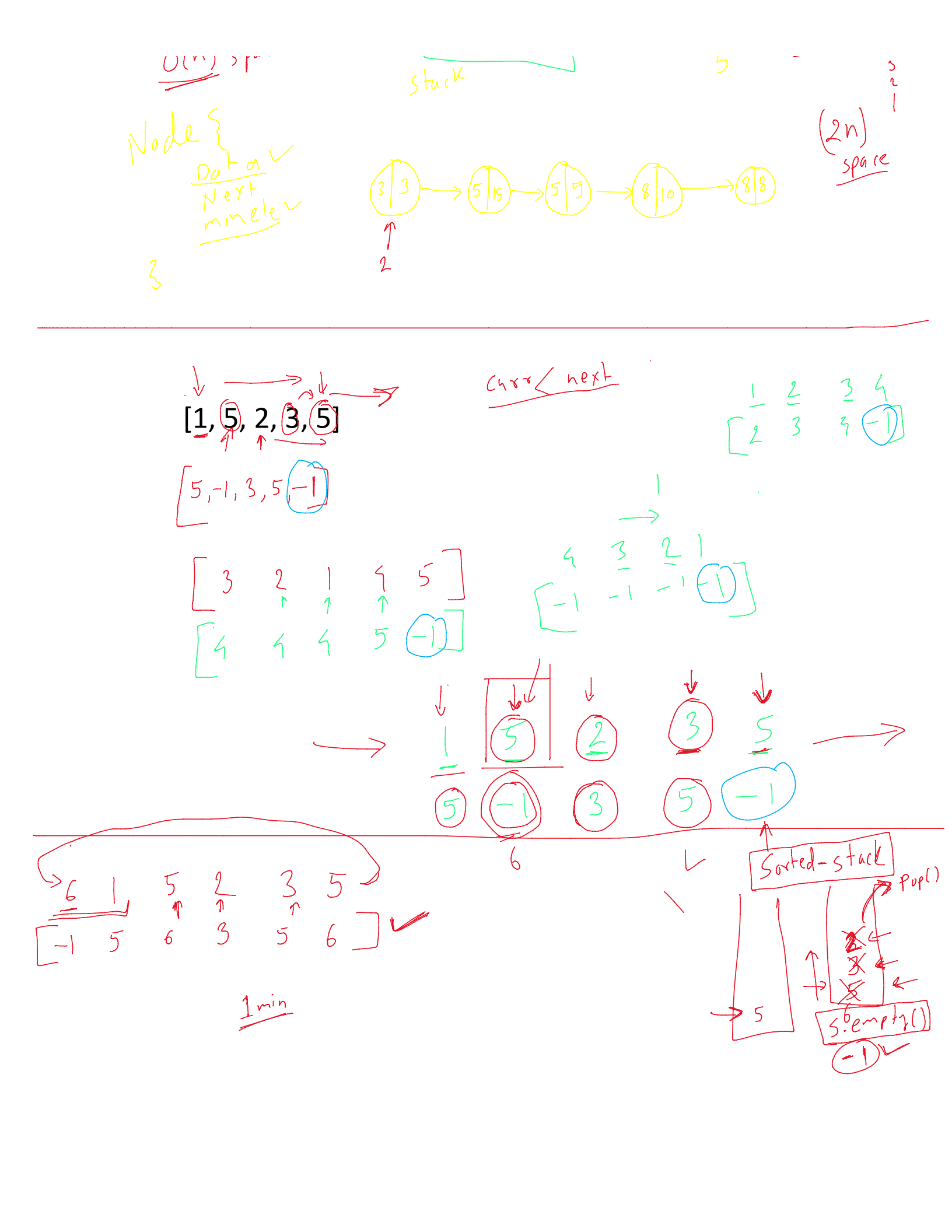


O(n) space

O(n)

O(n)




stack
Node {
Data
Next
minele
(2n)
space
[1, 5, 2, 3, 5]
curr < next
[5, -1, 3, 5, -1]
Sorted-stack
Pop()
5.empty()
-1
1 min