1 --- stack

Algorithm push(o)

Input: Node to be inserted in stack

Output: updated list

If S.size() is full then

Throw stack full exception

InsertFirst(o)

return S

Algorithm pop()

Input: remove Node

Output: removed element

If S.size() is equal to 0 then

Return no element exception

Removed🡨S.first()

Remove(Removed)

Return Removed

O(1) for both push() and pop()

2. ---queue

Algorithm push (o)

Input node to be inserted queue

Output updated queue

If Q.size() is full then

Throw QueueFullException

insertLast(o)

return Q

Algorithm pop()

Input: remove node

Output: removed node

If Q.isEmpty then

Throw EmptyExeption

Removed🡨Q.first()

Remove(Removed)

Return Removed

O(1) for both enqueue and dequeue