# Algorithms & Data Structure

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Who can see what you share he

Day11: Algorithms and Data Structure Session May 2021
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-Queues
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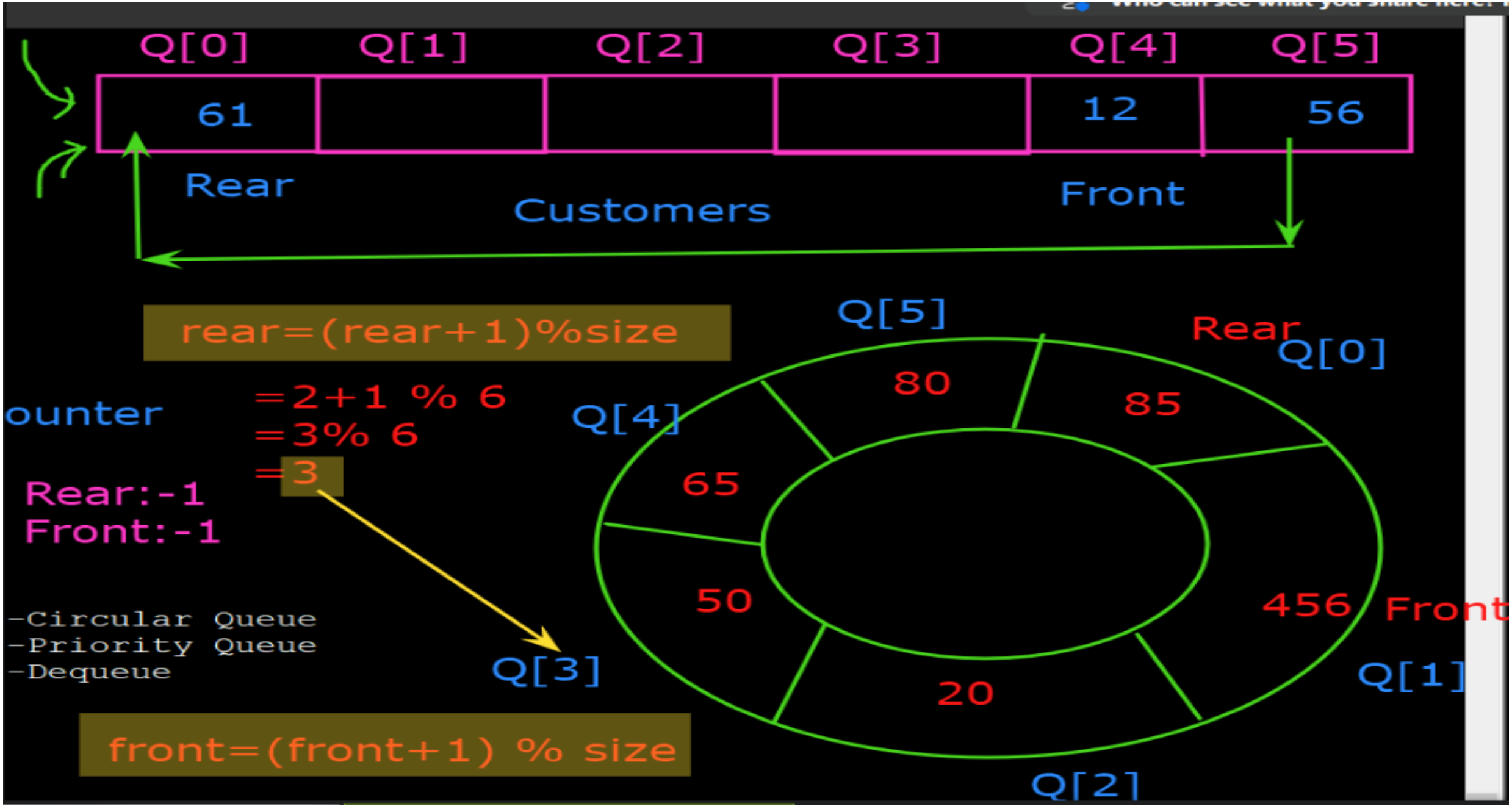
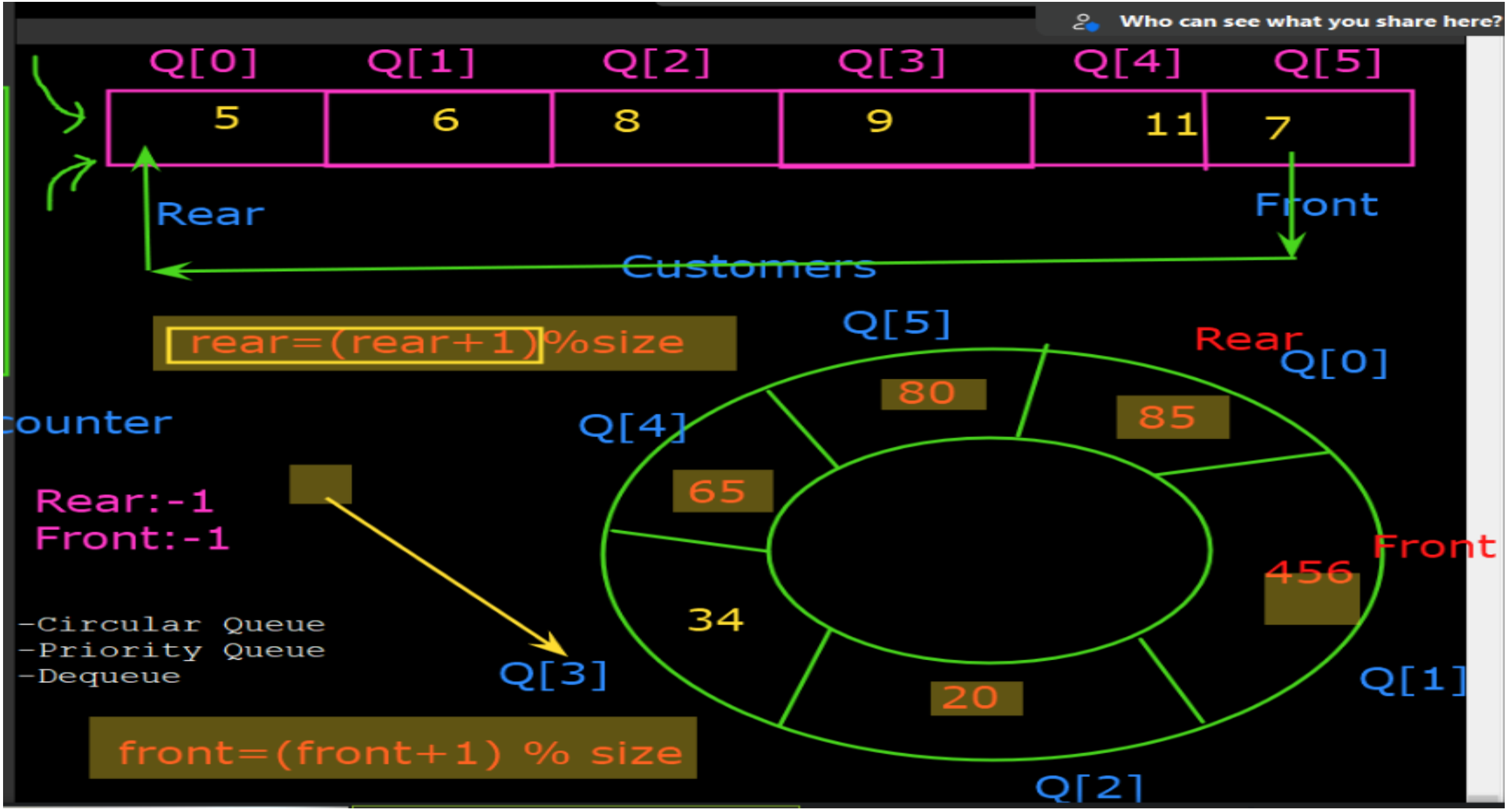
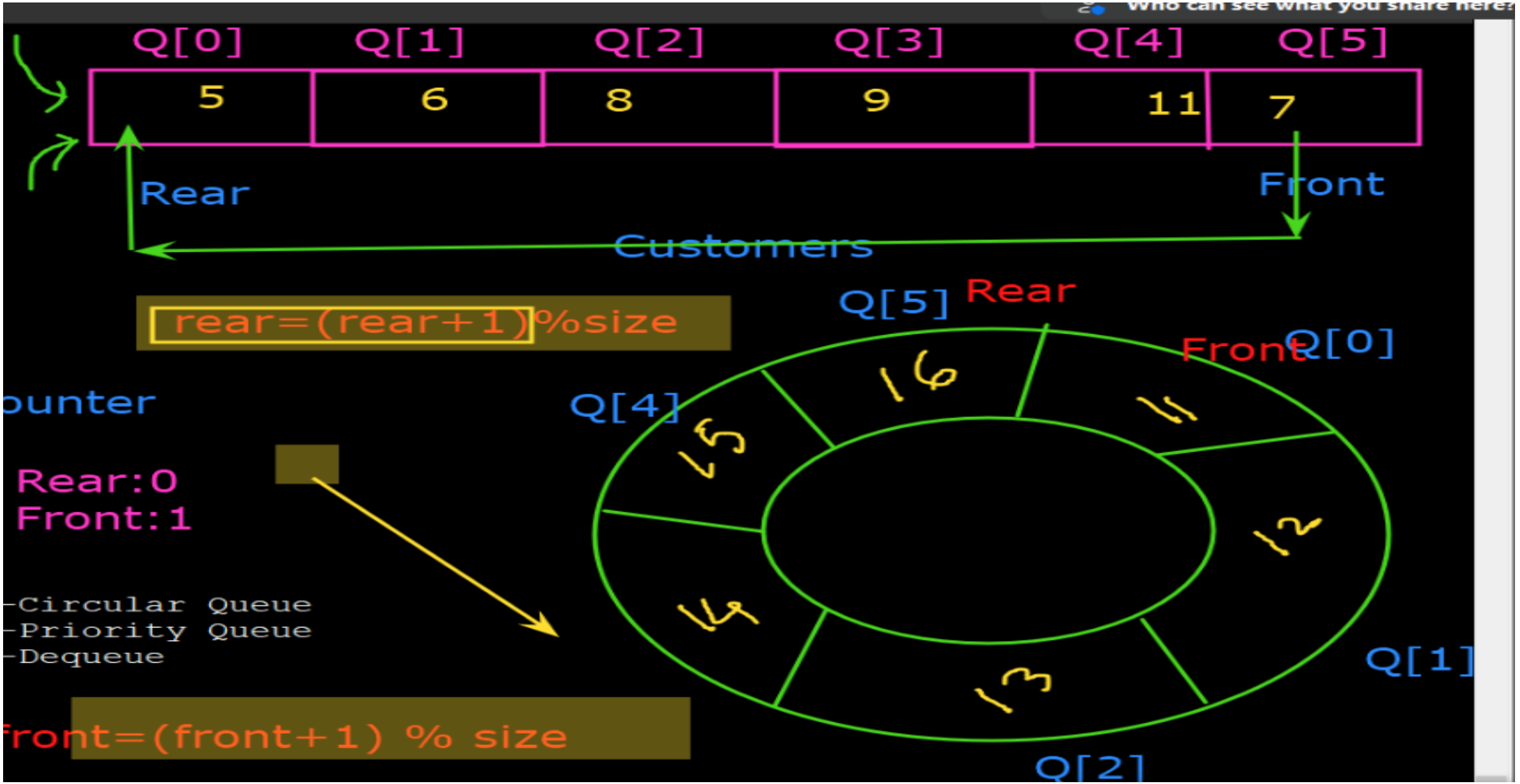
- -non-primitive linear data structure
- -oredered,homogenous,linear--->elements
- -2 link---> rear and front
- -Rear--> Insertion operation ----> enqueue()
- -Front---> Deletion operation -----> dequeue()
- -FIFO: First In First Out
- -Total no of elements in queue = rear - front + 1


Q[0]
Q[1]
Q[2]
Q[3]
Q[4]
Q[5]
61
12
56
Rear
Front
Customers
rear=(rear+1)%size
ounter
=2+1 % 6
=3% 6
=3
Rear:-1
Front:-1
-Circular Queue
-Priority Queue
-Dequeue
Q[3]
front=(front+1) % size
Q[5]
Rear
Q[0]
Q[4]
80
85
65
50
456
Front
Q[1]
20
Q[2]


Who can see what you share here?
Q[0]
Q[1]
Q[2]
Q[3]
Q[4]
Q[5]
5
6
8
9
11
7
Rear
Front
Customers
rear=(rear+1)%size
Q[5]
Rear
Q[0]
80
85
Q[4]
65
Rear:-1
Front:-1
Front
456
34
-Circular Queue
-Priority Queue
-Dequeue
Q[3]
Q[1]
20
front=(front+1) % size
Q[2]


Q[0]
Q[1]
Q[2]
Q[3]
Q[4]
Q[5]
5
6
8
9
11
7
Rear
Front
Customers
rear=(rear+1)%size
Q[5]
Rear
Front
Q[0]
Q[4]
16
11
15
12
14
13
Q[1]
Q[2]
ounter
Rear:0
Front:1
-Circular Queue
-Priority Queue
-Dequeue
front=(front+1) % size