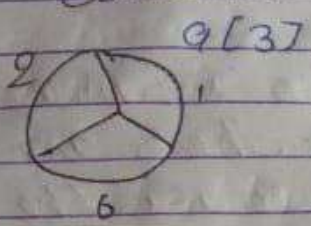


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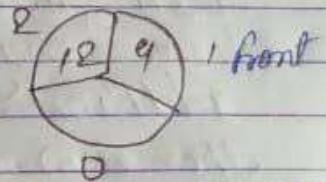
Circular Queue



Formula

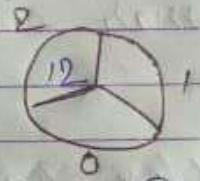
Queue Empty
 front = -1
 Rear = -1

i) if front = 0
 and rear = last
 then Que is full.



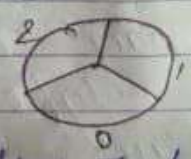
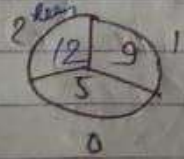
After 1st Addition
 front = 0
 Rear = 0

After 1st Deletion
 front = 1
 Rear = 2



After 2nd Addition
 front = 0
 Rear = 1

After 2nd Deletion
 front = 2
 Rear = 2



After 3rd Addition
 front = 0
 Rear = 2
 Queue Full

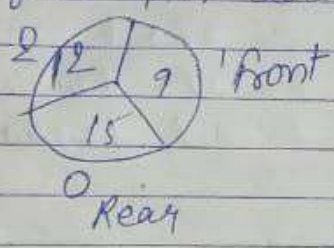
After 3rd Deletion
 Queue Empty
 front = rear = 2

Formula.
 If front is just after rear of a Queue is full.

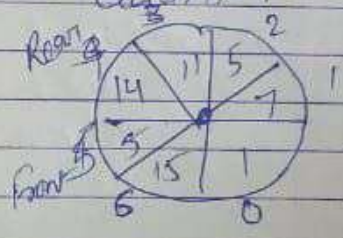
If $rear + 1 = front$ then Queue full.

After one deletion we can add a new element in the given Queue (in blank space)

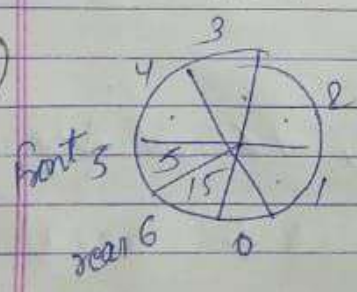
After 4th addition



(ii) After 9 new addition



(i)



After ~~5th~~ 4th deletion front reach on 5 number