Simulator

What is Circular Queue?

Circular Queue is a linear data structure in which the operations are performed based on FIFO (First In First Out) principle and the last position is connected back to the first position to make a circle. It is also called 'Ring Buffer'.
In a normal Queue, we can insert elements until queue becomes full. But once queue becomes full, we can not insert the next element even if there is a space in front of queue.

Cicular Queue operations:

1. enQueue(Insert new element).
2. deQueue(Delete element).
3. isFull(Check if Queue is full).
4. isEmpty(Check if Queue is empty).
5. display(Display all queue elements).

Time complexity:

1. enQueue O(1).
2. deQueue O(1).
3. isFull O(1).
4. isEmpty O(1).
5. display O(n).