ALGO Tutorial 04

- 1. What is a circular queue?
 - A circular queue is the extended version of a regular queue where the last element is connected to the first element.
- 2. What are the characteristics of the circular?
 - Fixed Size
 - Front & Rear Pointers
 - Enqueue
 - Dequeue
 - Empty & Full Conditions
- 3. Give applications of the circular queue.
 - Disk space allocation
 - CPU scheduling
 - Traffic management
- 4. What is the algorithm of the circular queue?
 - Initialize the Circular Queue
 - Enqueue
 - Dequeue
 - Front Operation
 - Display the circular queue
- 5. Write a simple program of circular.

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- 6. Compare and contrast linear queues and circular queues.
 - Linear queue, arranges the data in a linear pattern while, circular queue arranges the data in a circular order where the rear end is connected with the front end.
 - Linear queue, the insertion and deletion operations are fixed but circular queue insertion and deletion are not fixed.
 - Linear queue requires more memory space circular queue requires less memory space.
 - Linear queue is inefficient in comparison to a circular queue while circular queue is more efficient in comparison to linear queue.