1. Basics of queue data structure
2. Real-life example of the queue in your school canteen
3. Implement Queue using Arrays
4. Implement Queue using Linked List
5. Implement Queue using Stack
6. Implement Stack Using Queue
7. Implement and understand double ended queue
8. Implement a circular queue and where it can be used
9. Producer Consumer Problem
10. Queue Reversal
11. Implement LRU cache
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13. Sliding window coding pattern
14. Sliding window maximum
15. First negative integer in every window of size
16. Trapping rain water – Stack based
17. Simplify directory Path – Stack Based

Queue is liniear data structure

* First-in-first-out sequence
* Front – Where the items are removed
* Back – Where the items are inserted.

Common Operation in Queue

1. Enqueue – Adds an item from the back of the queue
2. Deque – Removes an item from the front of the queue
3. Front/Peek – Returns the value of the item in the front of queue without dequeuing (removing) the item
4. isEmpty : Checks if the queue is empty
5. isFull : Checks if the queue is full
6. display : Prints all the items in queue