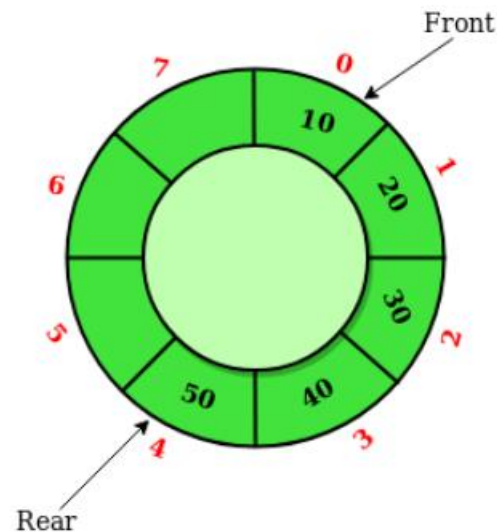


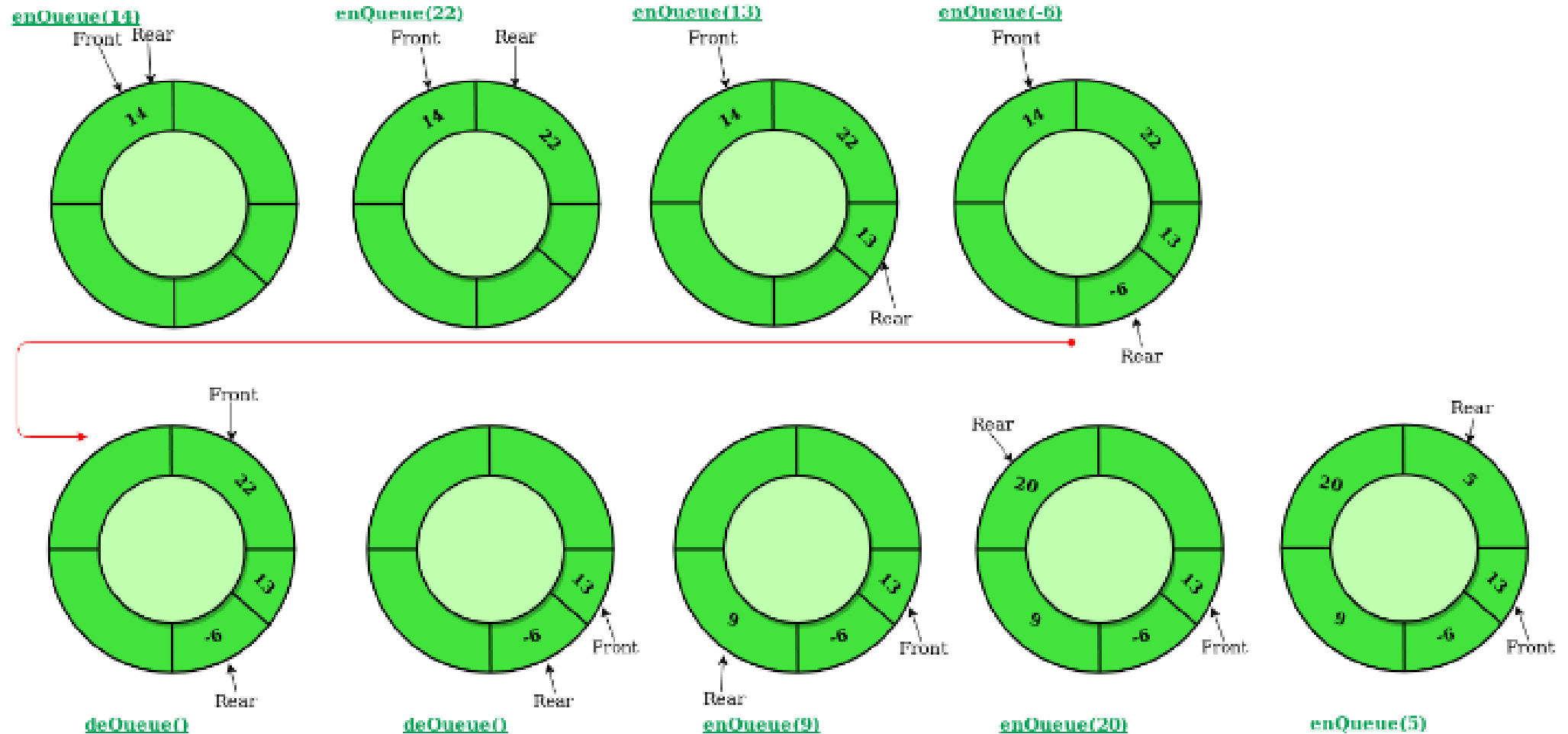
Circular and Priority Queues

What is Circular Queue?

- A Circular Queue is an extended version of a normal queue where the last element of the queue is connected to the first element of the queue forming a circle.



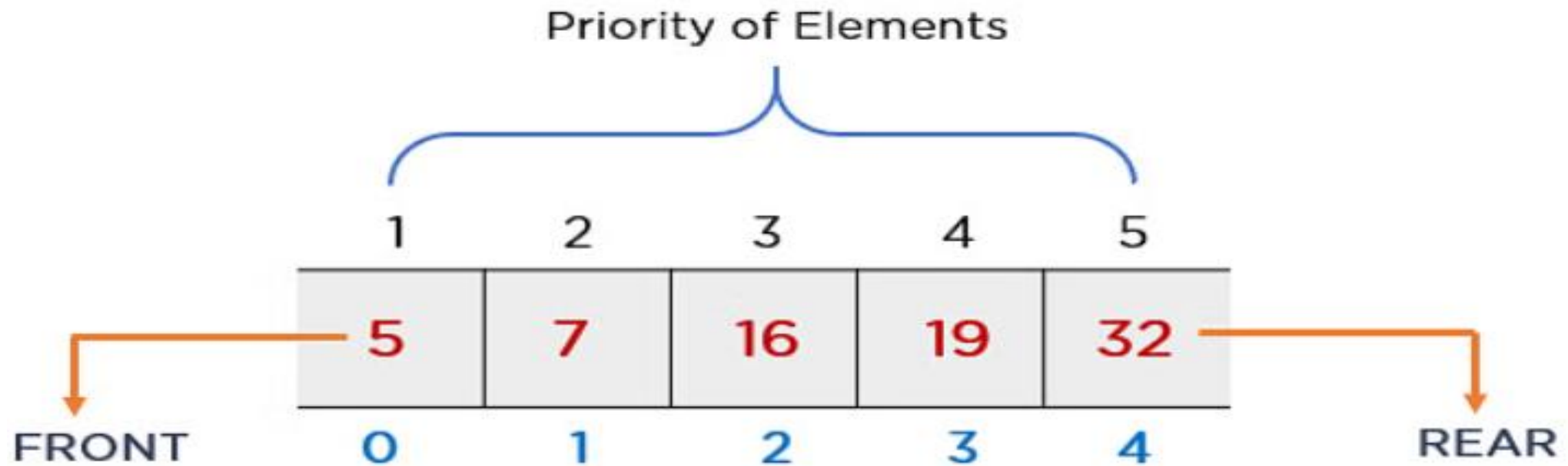
Working of Circular Queue



What is Priority Queue?

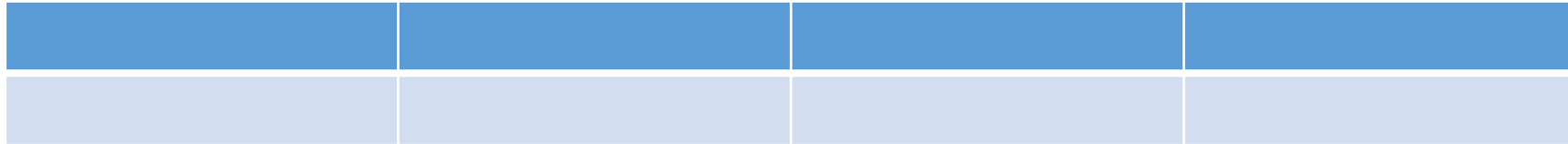
- Queue that arranges elements based on their priority values. Elements with higher priority values are typically retrieved or removed before elements with lower priority values.
- Examples
 - The hospital emergency queue is an ideal real-life example of a priority queue.
 - Google Maps for searching the optimal path to reach any destination.

Working of Priority Queue



Implementation

- Using arrays and LinkedList
 - Which one is better?



Implementation

- Highest number = Highest Priority

a	b	c	d
4	3	6	6

Task

- Write algorithm for Enqueue operation of Priority queue.

References

- <https://www.simplilearn.com/tutorials/data-structure-tutorial/priority-queue-in-data-structure#:~:text=Priority%20queue%20in%20a%20data%20structure%20is%20an%20extension%20of,the%20element%20with%20lower%20priority.>
- <https://www.geeksforgeeks.org/introduction-to-circular-queue/>