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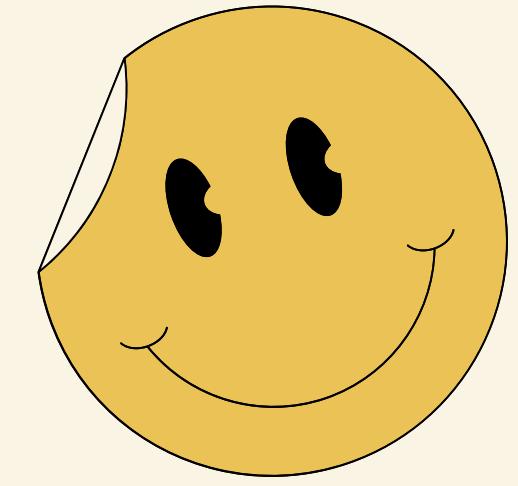
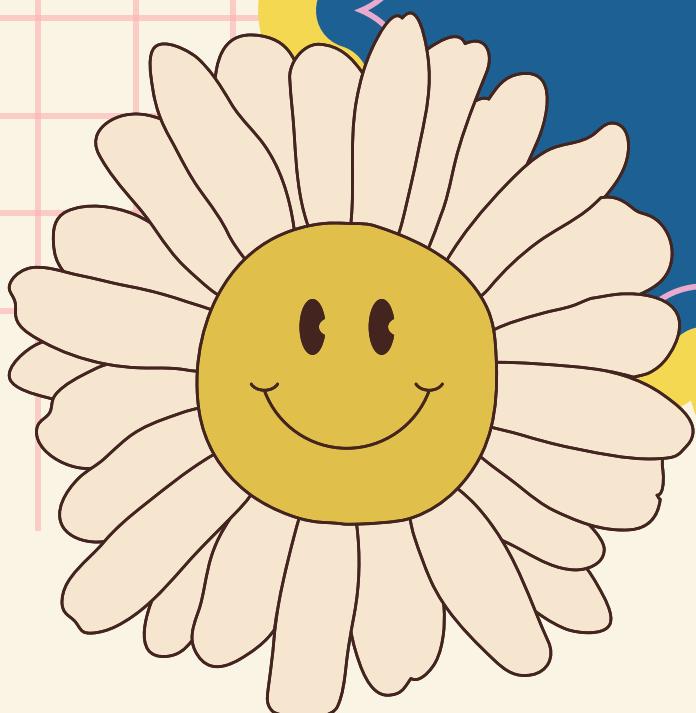
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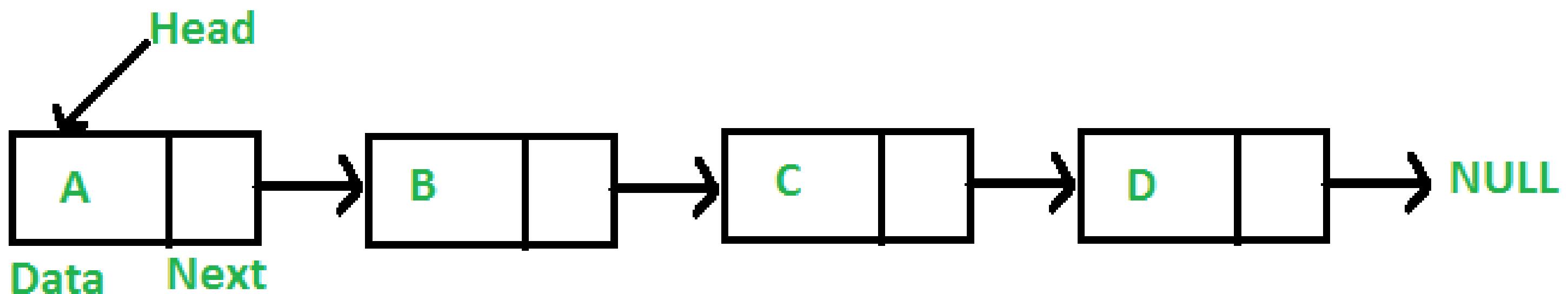
CIRCULAR LINKED LIST



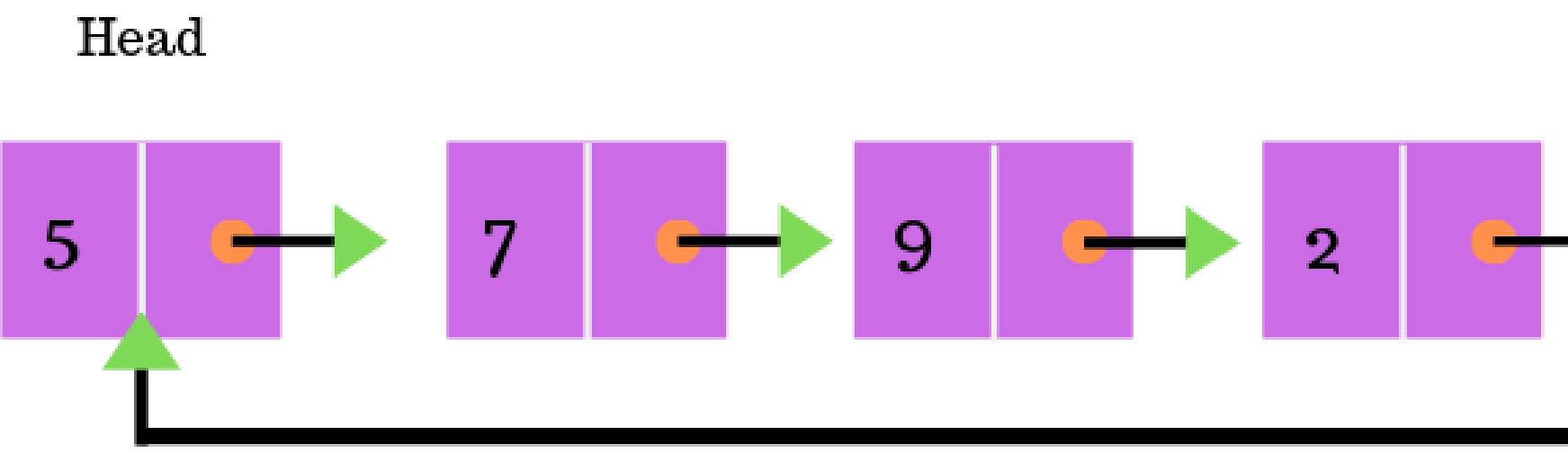
- **Parts of linked list**
- **Circular linked list**
- **Operations of circular linked list**

AGENDA

PARTS OF A LINKED LIST



What is a Circular linked list

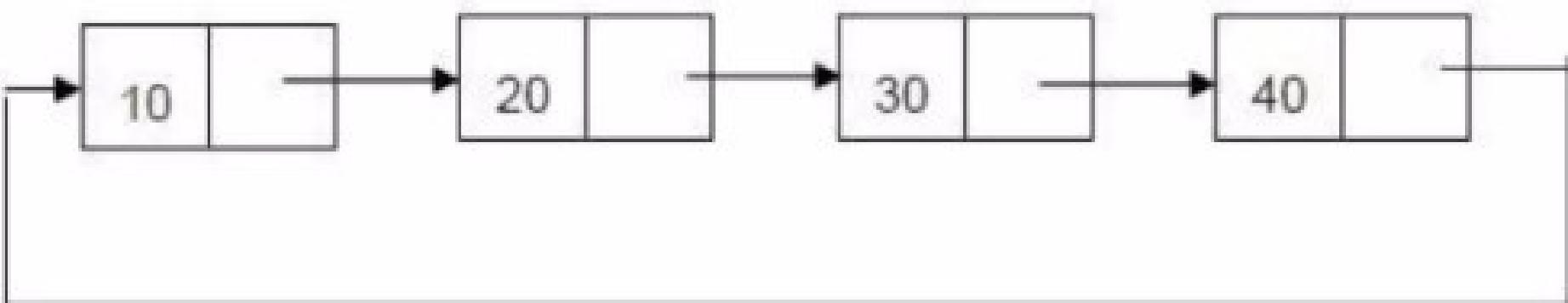


Circular Linked List

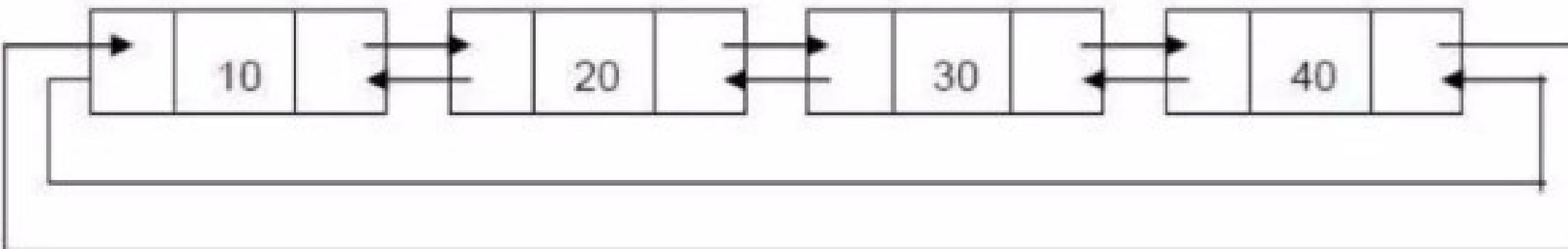
Circular linked list
is a linked list
where all nodes are
connected to form
a circle.

Types of circular linked list:

1. **Singly:** The last node points to the first node and there is only link between the nodes of linked list.



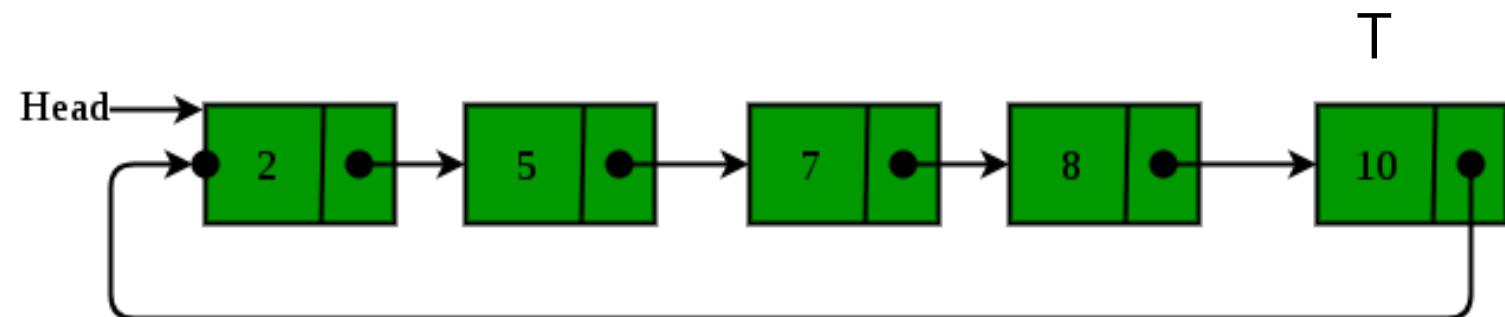
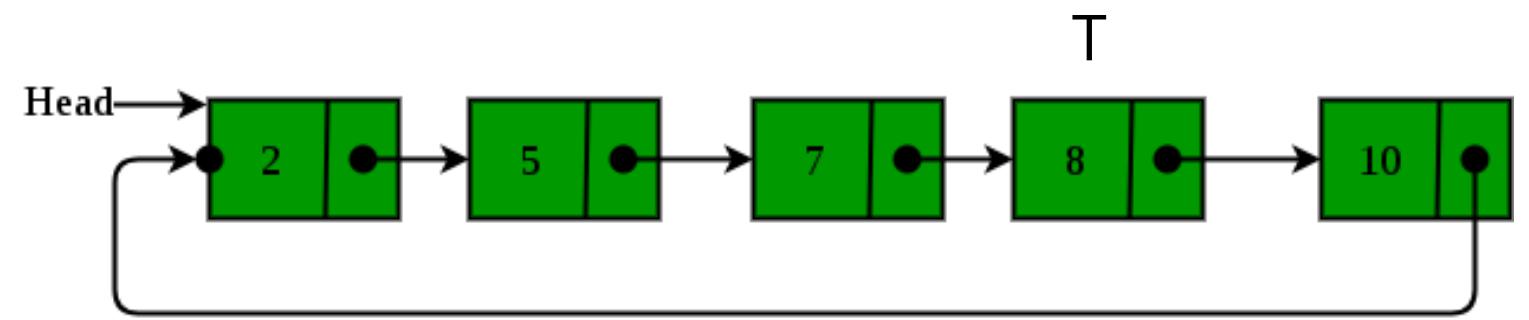
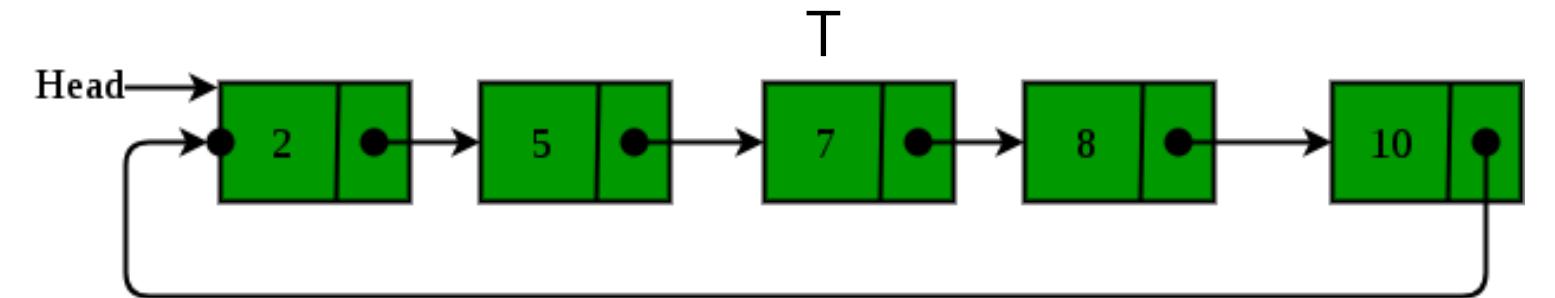
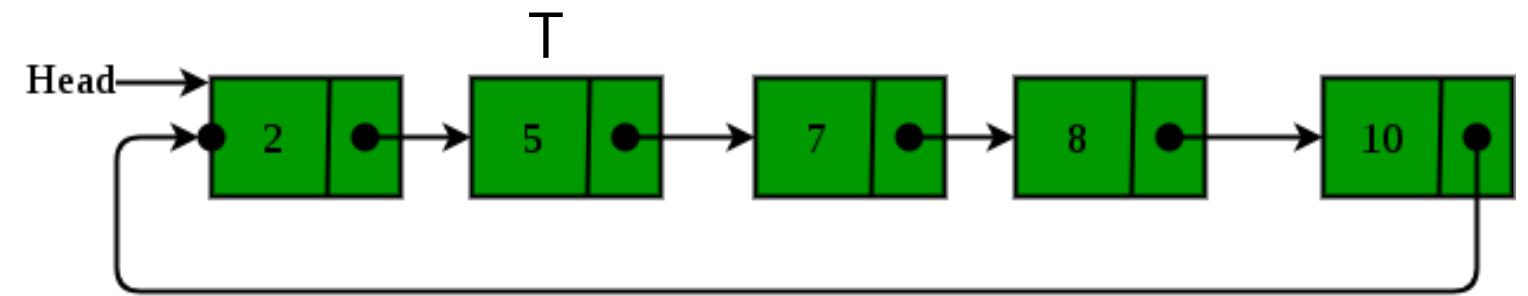
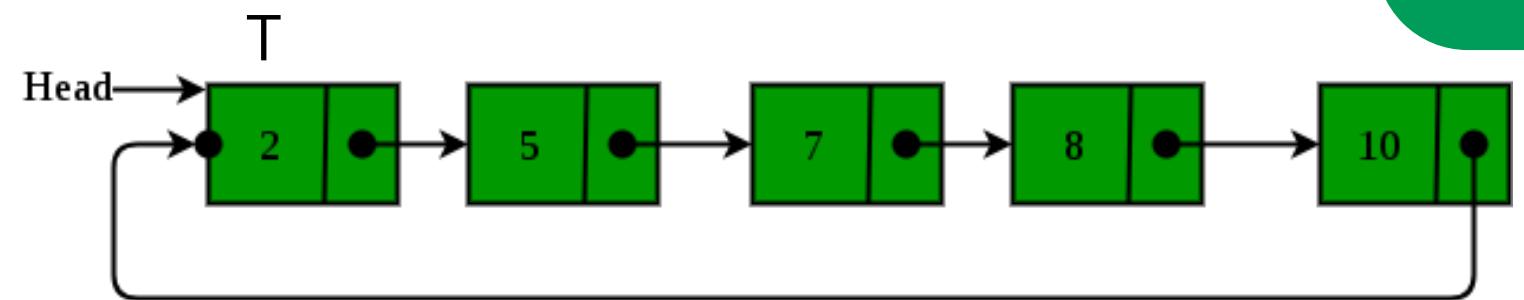
2. **Doubly:** The last node points to the first node and there are two links between the nodes of linked list.



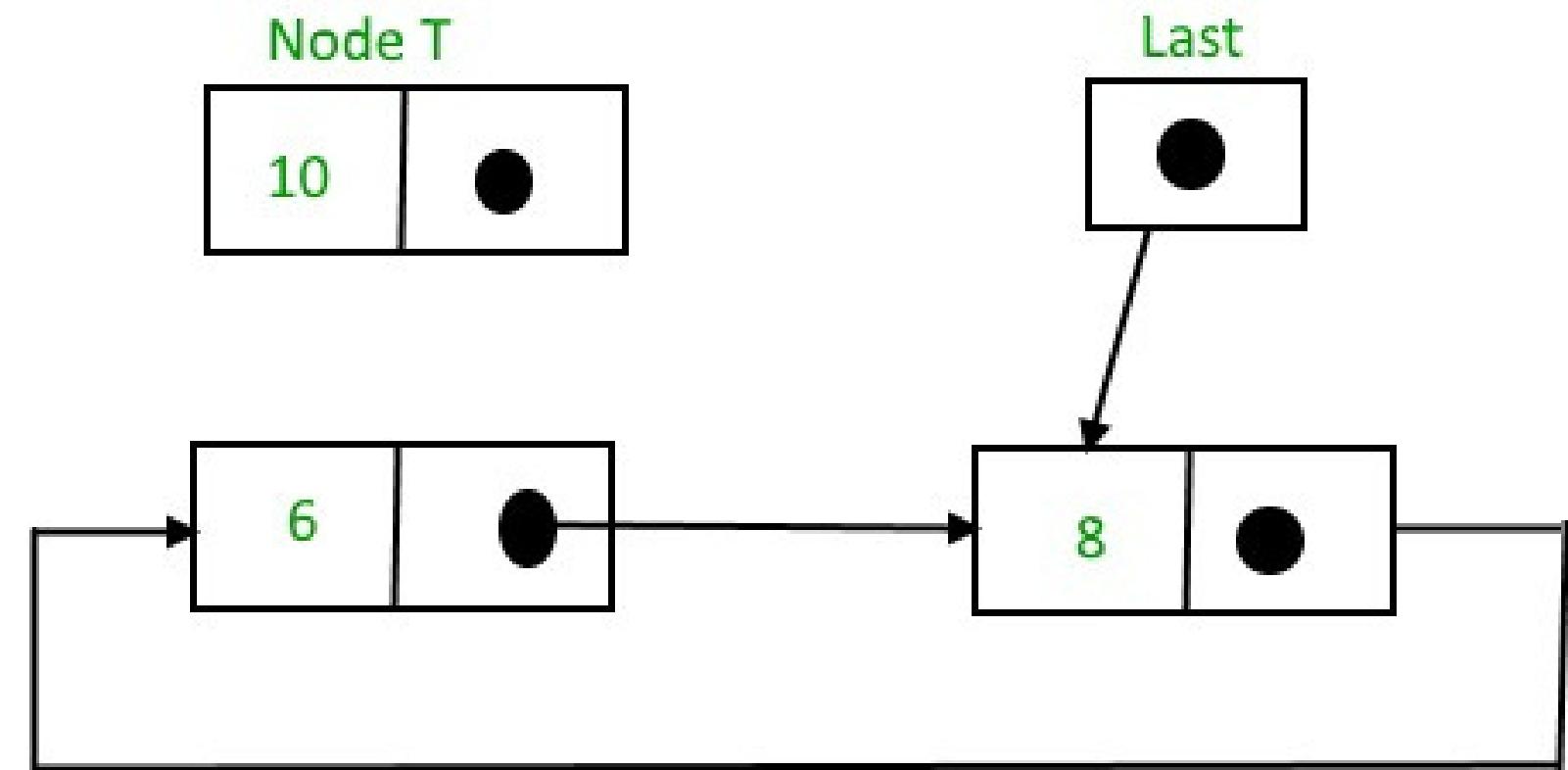
OPERATIONS OF CIRCULAR LINKED LIST

- Traversal
- Insertion
- Deletion

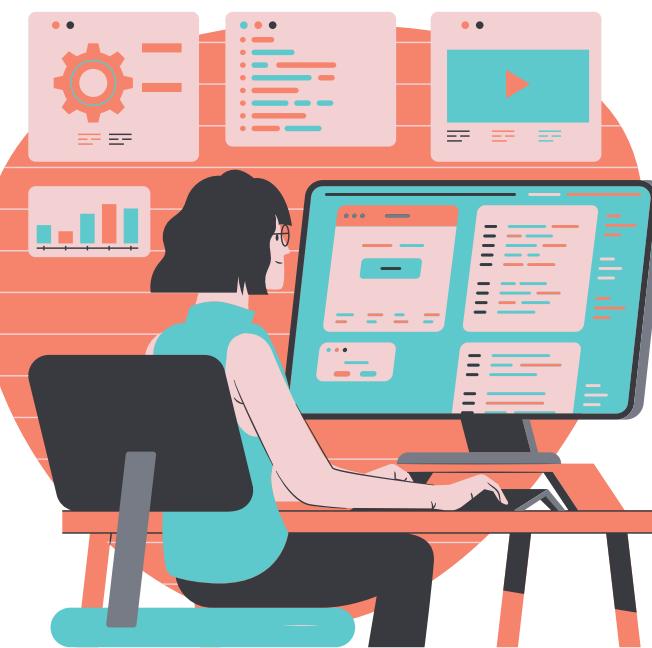
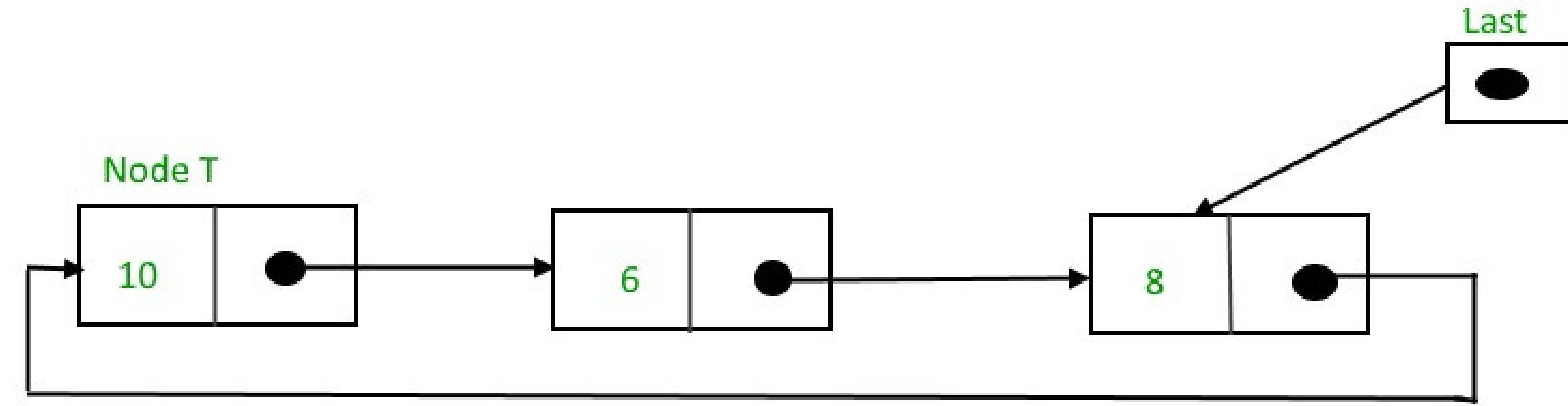
Traversal



INSERTION

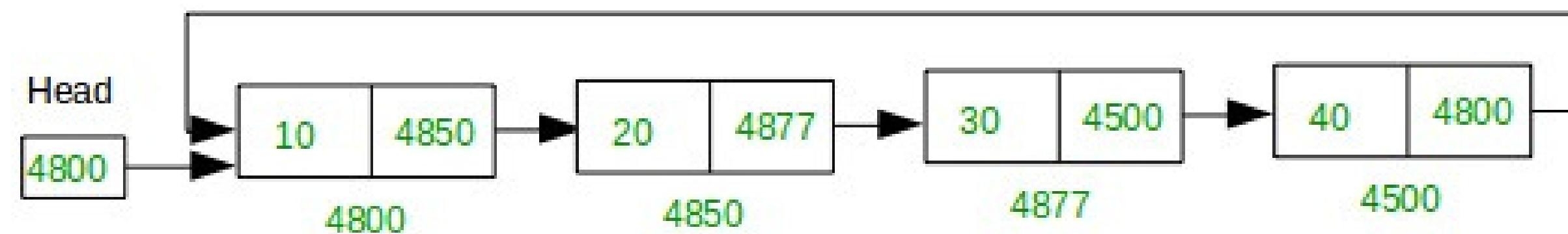


After Insertion

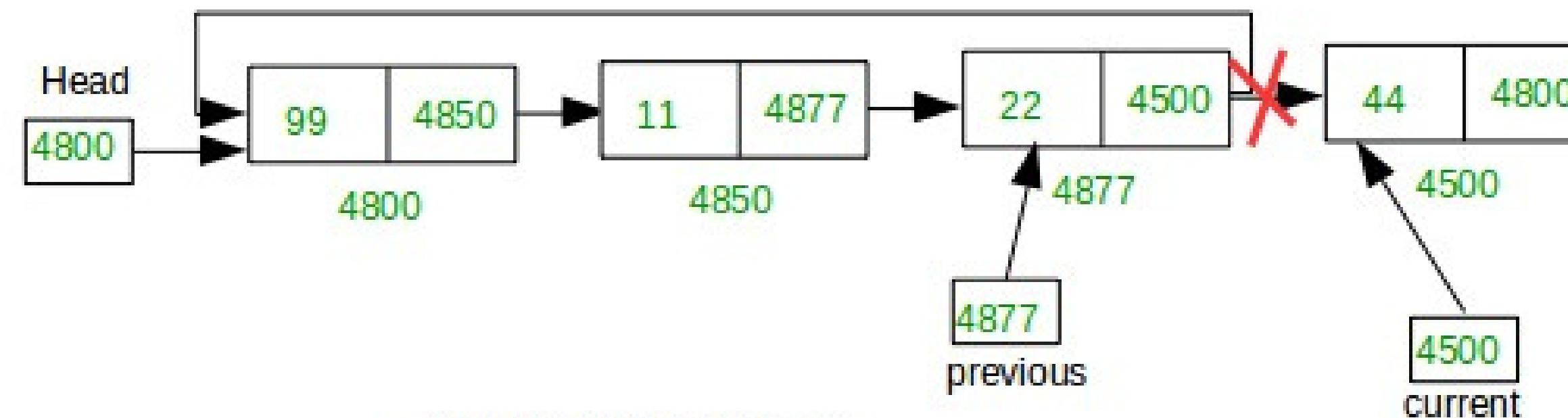


Deletion

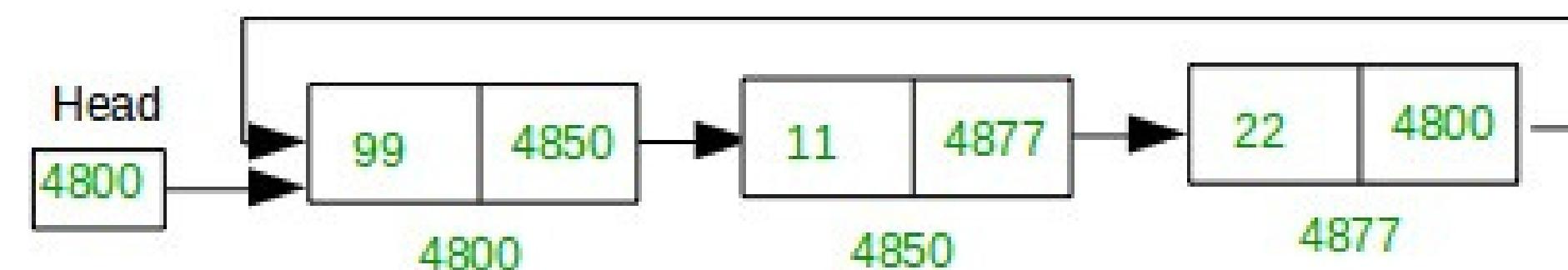
Initial List



Remove Last Node



After Remove Last Node

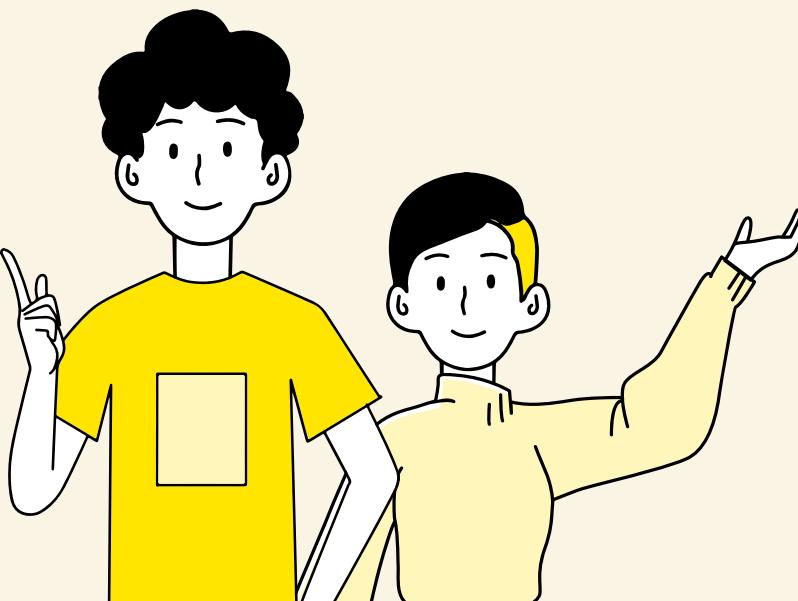


ADVANTAGE OF CIRCULAR LINKED LIST

- Entire list can be traversed from any node of the list.
- It saves time when we have to go to the first node from the last node.
- Its is used for the implementation of queue.
- Reference to previous node can easily be found.
- When we want a list to be accessed in a circle or loop then circular linked list are used.

Disadvantage of circular linked list

- If not handled proper validation then code may go in an infinite loop.
- Not easy to reverse a circular linked list.
- For the implementation perspective to insert at the beginning we have to traverse the complete list to find the last node.
- Harder to find the end of the list and loop control.





THANK YOU