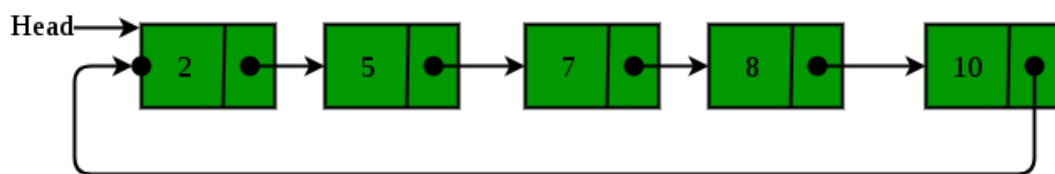


Circular Linked List (Advantages & Disadvantages)

A **Linked List** is a popular data structure which is used to store elements. It is a linear data structure. It contains nodes that have a pointer to store the address of the next node and data which is the value of that node. **Circular Linked List** is a type of linked list that is circular in nature. In a circular linked list, every node has successor. In this data structure, every node points to the next node and the last node of the linked list points to the first node. This feature makes it circular in nature. It is essential to know that the circular linked lists have no end and we need to be careful while traversing the linked list.



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- Circular Linked Lists can be used to manage the computing resources of the computer.
- Data structures such as stacks and queues are implemented with the help of the circular linked lists.
- Circular Linked List is also used in the implementation of advanced data structures such as a Fibonacci Heap.
- It is also used in computer networking for token scheduling.

Real-Life Application of Circular Linked Lists:

- Round Robin scheduling technique in games.
- Audio/Video Streaming
- Circular Escalators

Advantages of Circular Linked Lists:

- It is possible to traverse from the last node back to the first i.e. the head node.
- The starting node does not matter as we can traverse each and every node.

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- Dash
- There is no need for a NULL function to code. The circular list never identifies a



- Algorithms such as Round Robin setup can effectively complete online queues without having to meet NULL suspension or reference references.



Disadvantages of Circular Linked Lists:

- If the circular linked list is not handled properly then it can lead to an infinite loop as it is circular in nature.
- In comparison with singly-linked lists, doubly linked lists are more complex in nature
- Direct accessing of elements is not possible.
- It is generally a complex task to reverse a circular linked list.



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