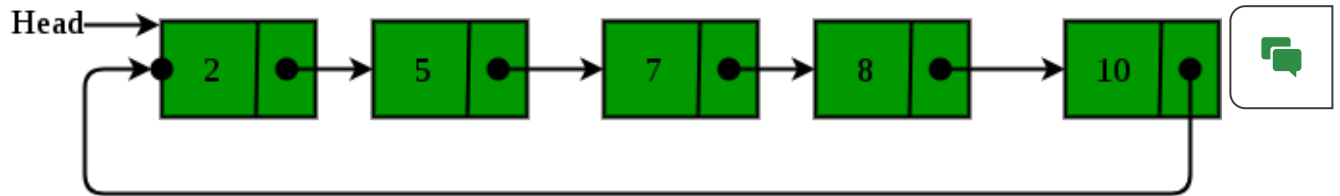


# Circular Linked List Traversal

In this post, traversal operation is discussed.



## Using Do While Loop:

In a conventional linked list, we traverse the list from the head node and stop the traversal when we reach NULL. In a circular linked list, we stop traversal when we reach the first node again. Following is the C code for the linked list traversal.

C++

Java

```
/* Function to print nodes in a
given Circular linked list */
import java.util.*;

static void printList(Node head)
{
    Node temp = head;

    // If linked list is not empty
    if (head != null)
    {

        // Keep printing nodes till we reach the first node
        // again
        do
        {
            System.out.print(temp.data + " ");
            temp = temp.next;
        } while (temp != head);
    }
```

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```
import java.util.*;
import java.io.*;
import java.lang.*;

class Node{
    int data;
    Node next;
    Node(int d){
        data=d;
        next=null;
    }
}

class Test {

    public static void main(String args[])
    {
```

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```
        head.next.next=new Node(20);
        head.next.next.next=new Node(15);
        head.next.next.next.next=head;
        printlist(head);

    }

    public static void printlist(Node head){
        if(head==null)return;
        System.out.print(head.data+" ");
        for(Node r=head.next;r!=head;r=r.next)
            System.out.print(r.data+" ");
    }
}
```



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}

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All

**Time Complexity:**  $O(n)$   
**Auxiliary Space:**  $O(1)$



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