



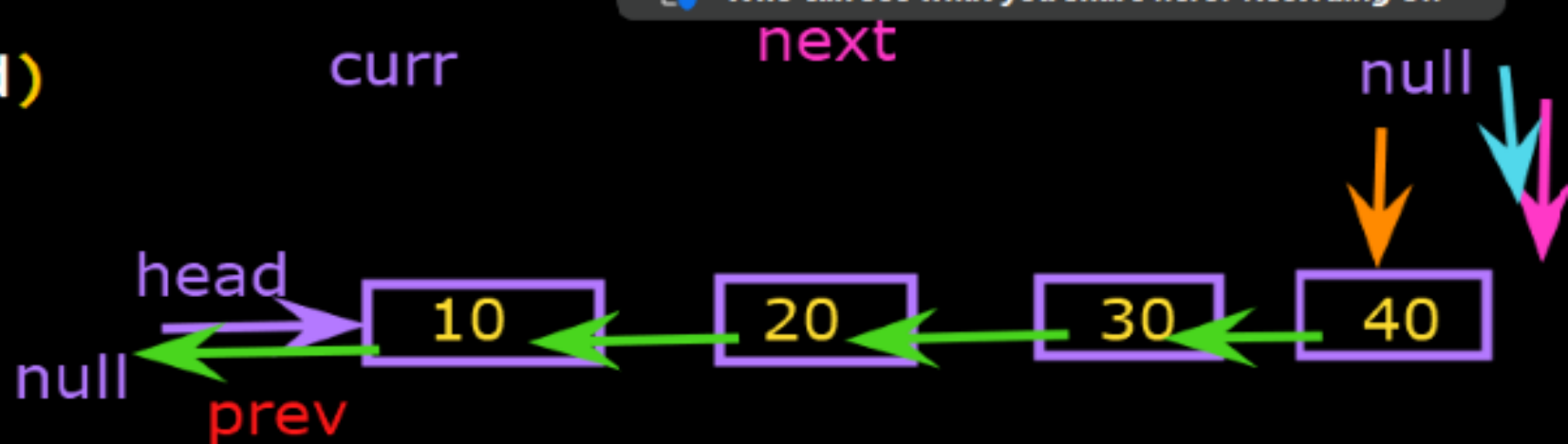
DATA STRUCTURES AND ALGORITHMS

Sep22 : Day 7

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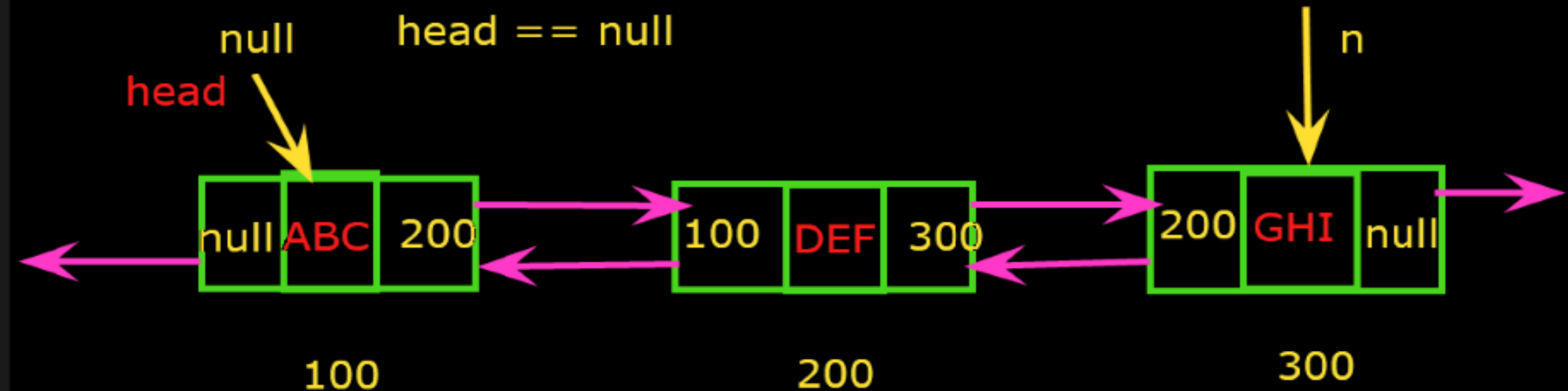
```
Node reverse(Node head)
{
    Node prev = null;
    Node curr = head;
    Node next = null;

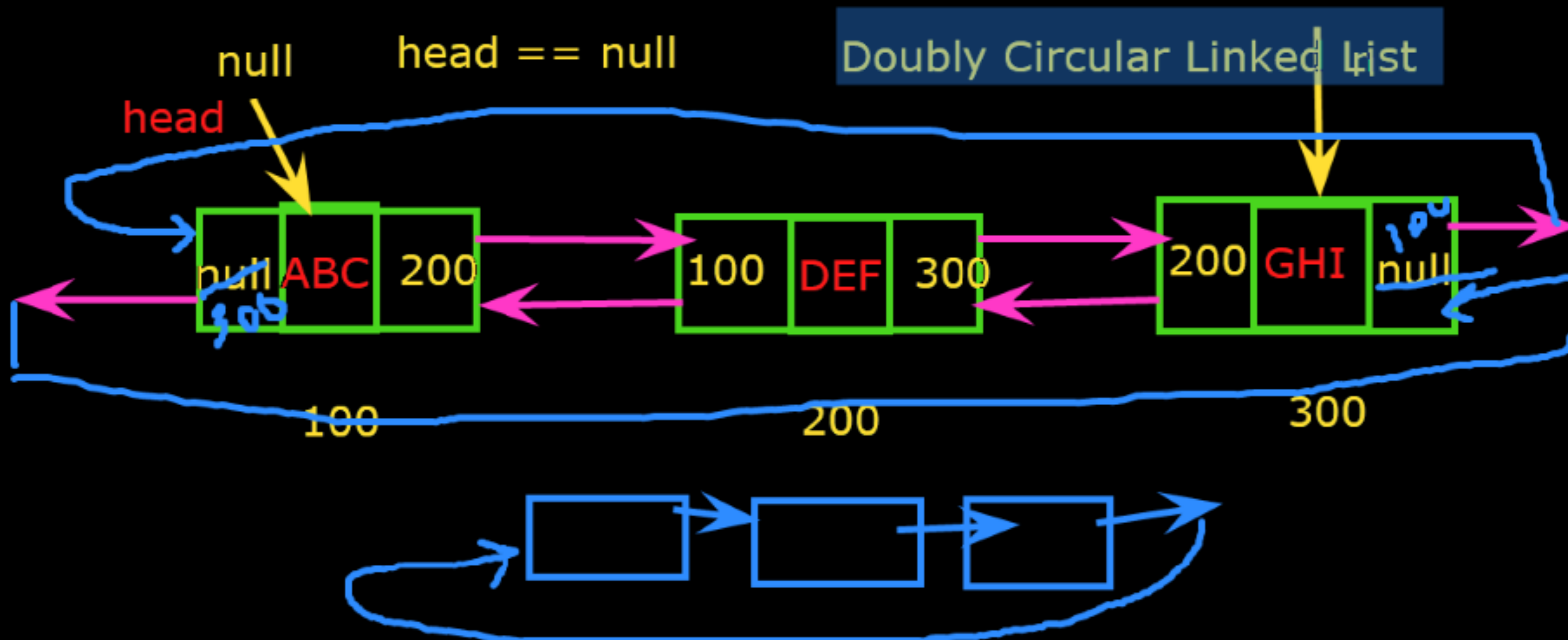
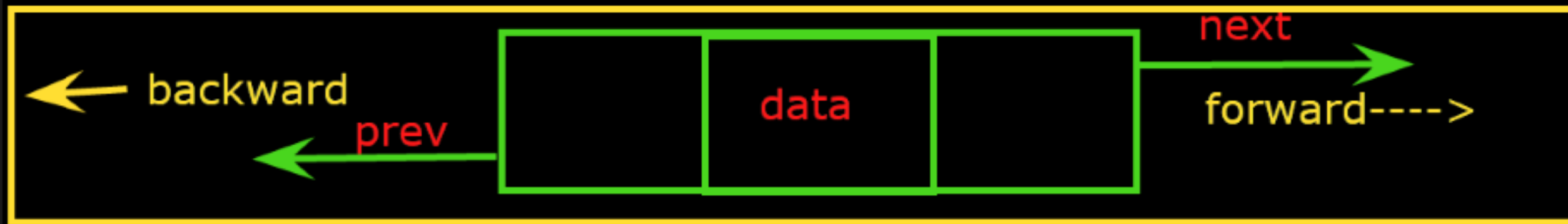
    while(curr != null)
    {
        next = curr.next;
        curr.next = prev;
        prev = curr;
        curr = next;
    }
    head = prev;
    return head;
}
```



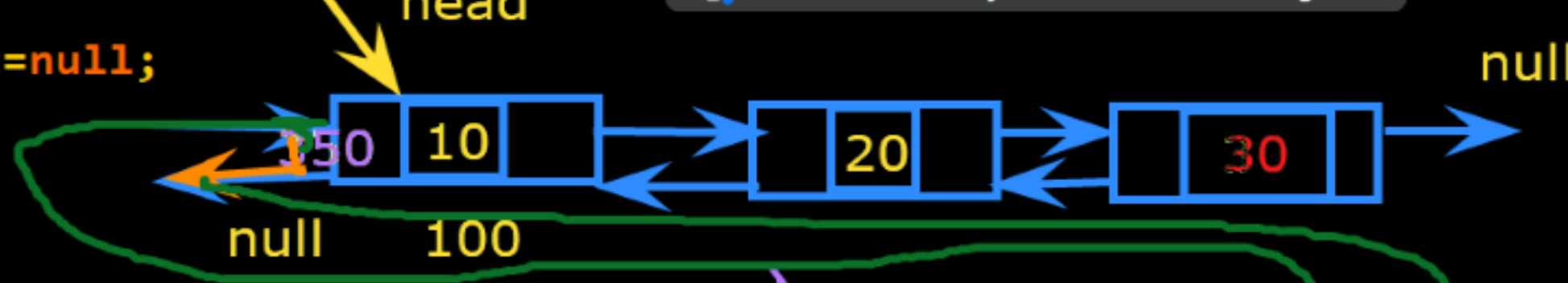
next = curr.next
curr.next = prev
curr = next

Doubly Linked List:





```
data = d;  
prev=next=null;  
}
```



Insertion Operation:

case 1: Insert at beginning.

```
static void insert(int new_data)  
{  
    Node new_Node = new Node(new_data);  
    new_Node.next = head;  
    new_Node.prev = null;  
    if(head != null)  
        head.prev = new_node;  
    head = new_Node;  
}
```

