

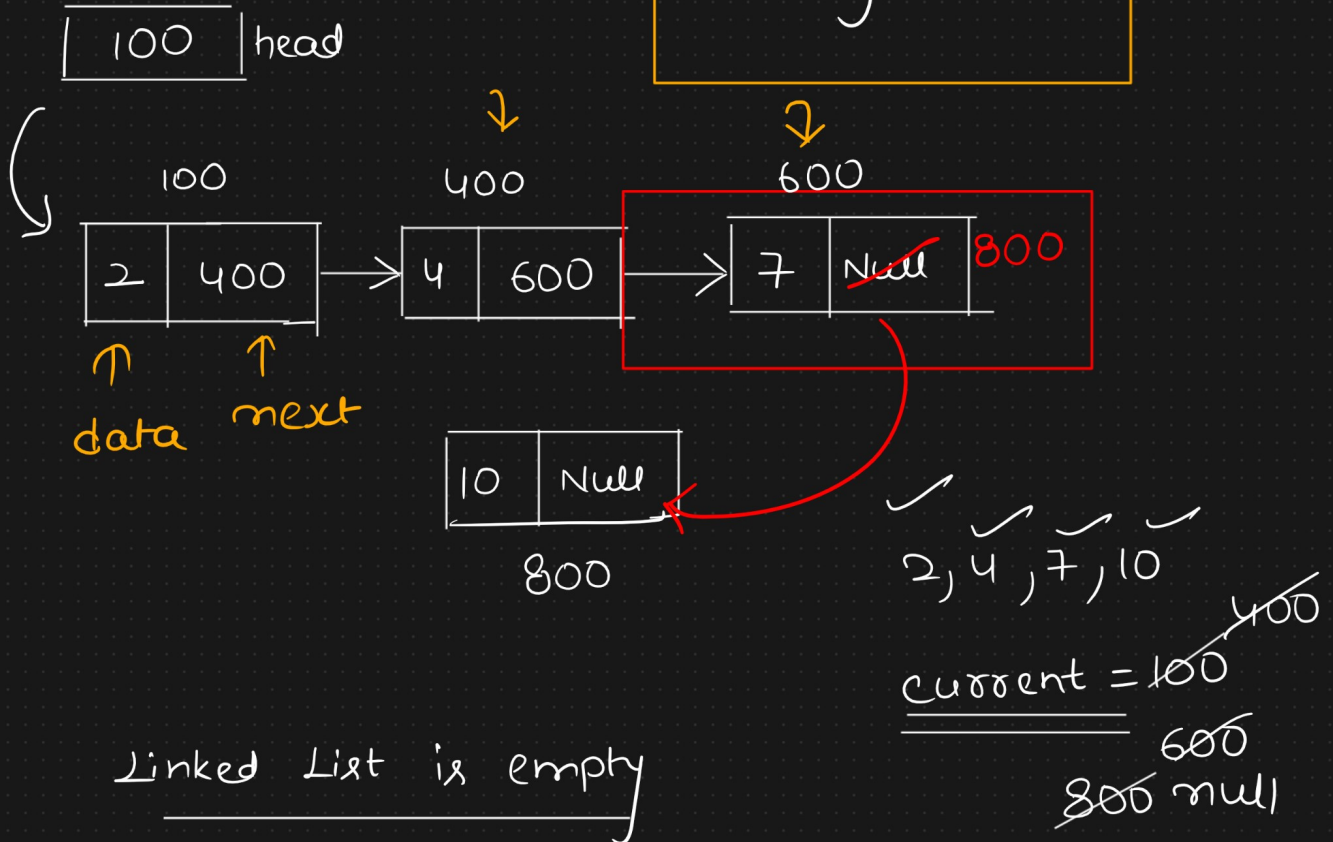
Linked List

Insertion

At the very end

At the very beginning

At any location



Linked List is empty

head == null

head = newNode

Diagram illustrating the insertion of a new node at the end of a linked list:

A temporary pointer 'temp' is initialized to 'head' (address 100, which is crossed out). The process involves traversing the list until the next pointer is null.

Code snippet for insertion at the end:

```

temp = head
while (temp.next != null)
    temp = temp.next
temp.next = newNode
return;
    
```

The final result is a linked list with nodes containing data 2, 4, 7, and 10.

Time complexity = $O(n)$