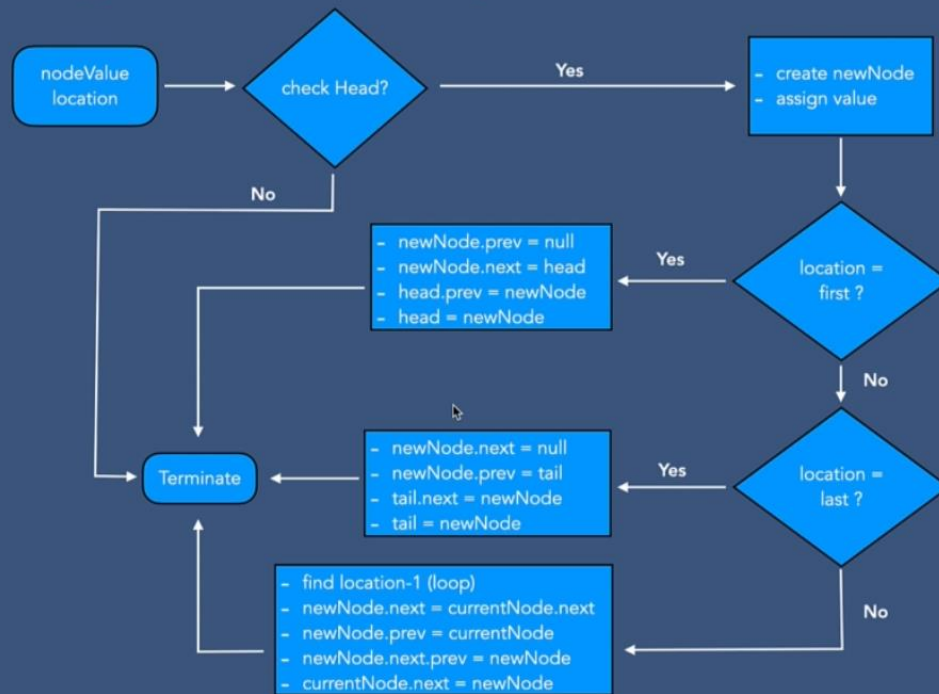
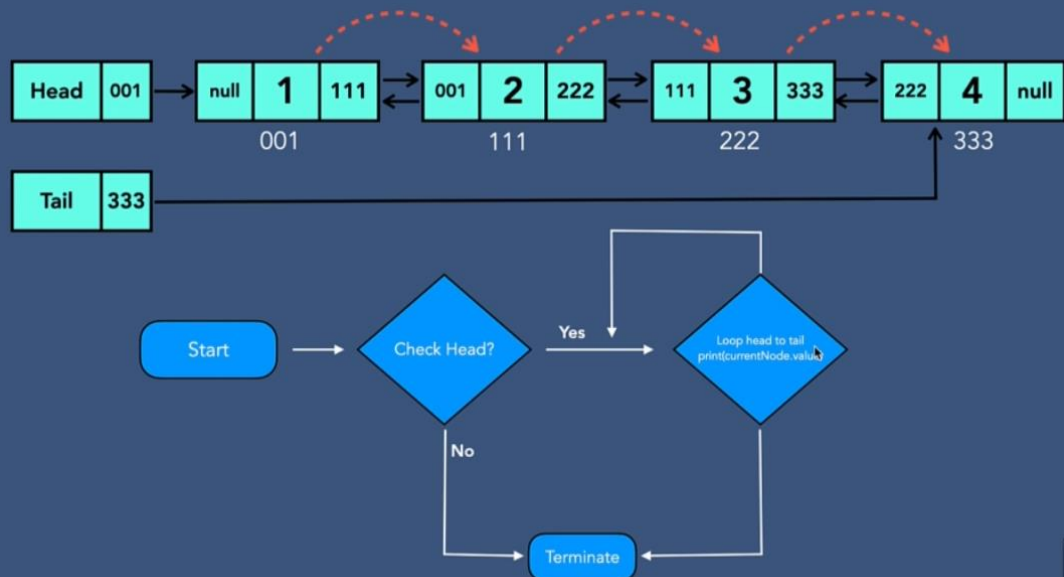


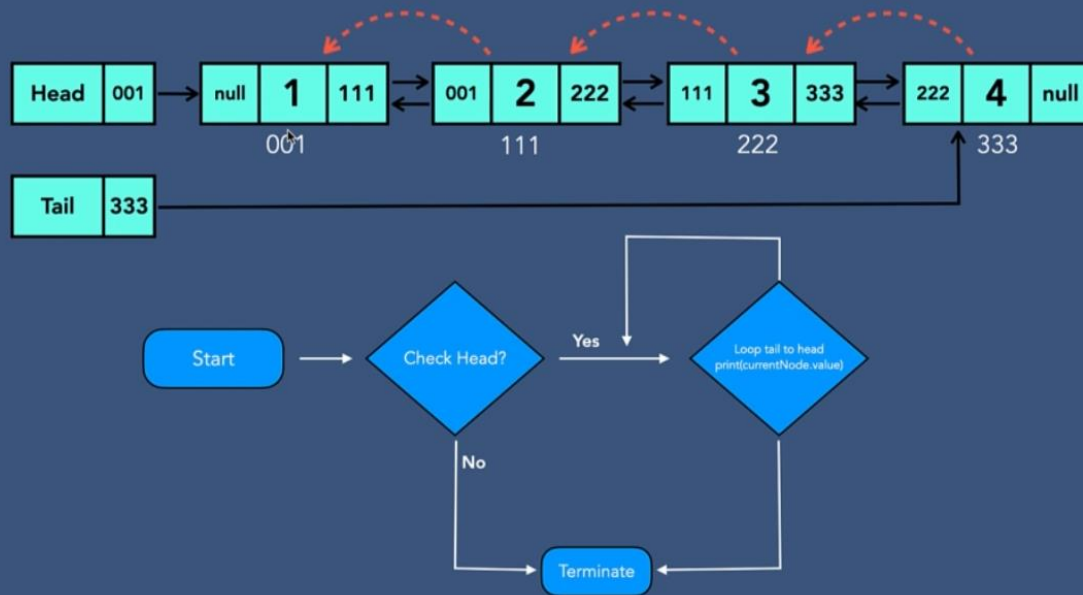
Insertion Algorithm - Doubly Linked List



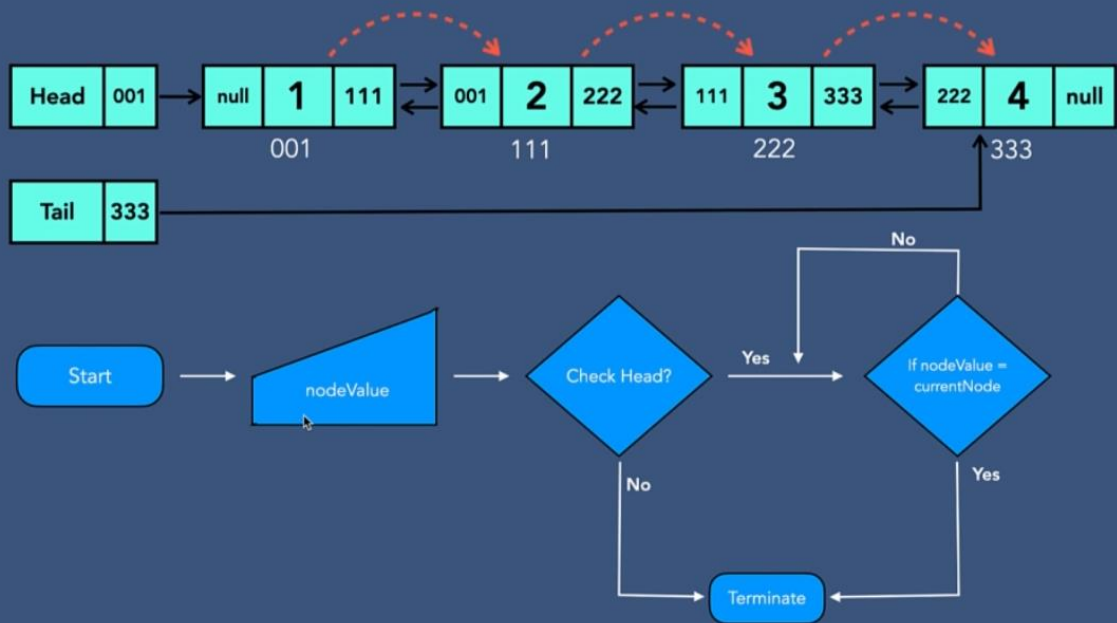
Traversal - Doubly Linked List



Reverse Traversal - Doubly Linked List



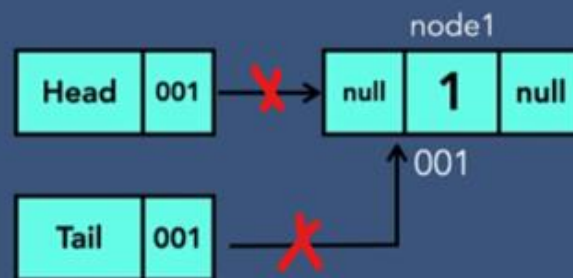
Searching- Doubly Linked List



Deletion - Doubly Linked List

Deleting the first node

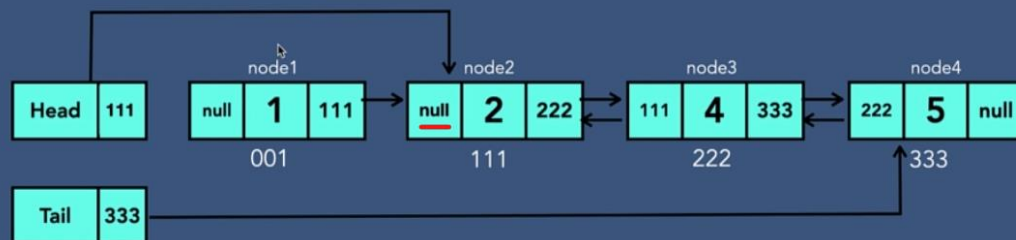
Case 1 - one node



Deletion - Doubly Linked List

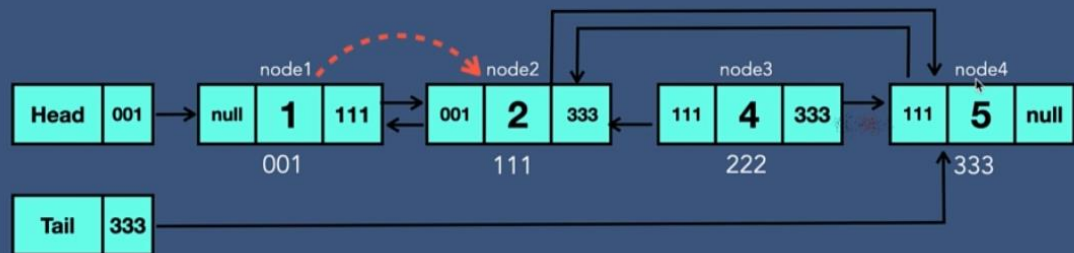
Deleting the first node

Case 2 - more than one node



Deletion - Doubly Linked List

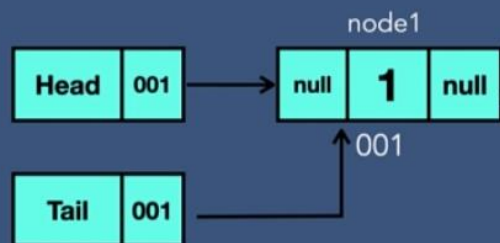
Deleting any given node



Deletion - Doubly Linked List

Deleting the last node

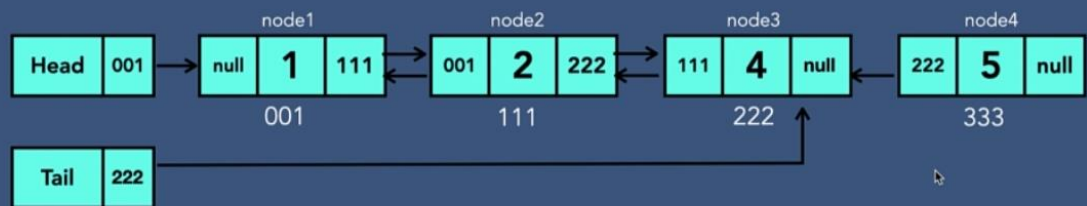
Case 1 - one node



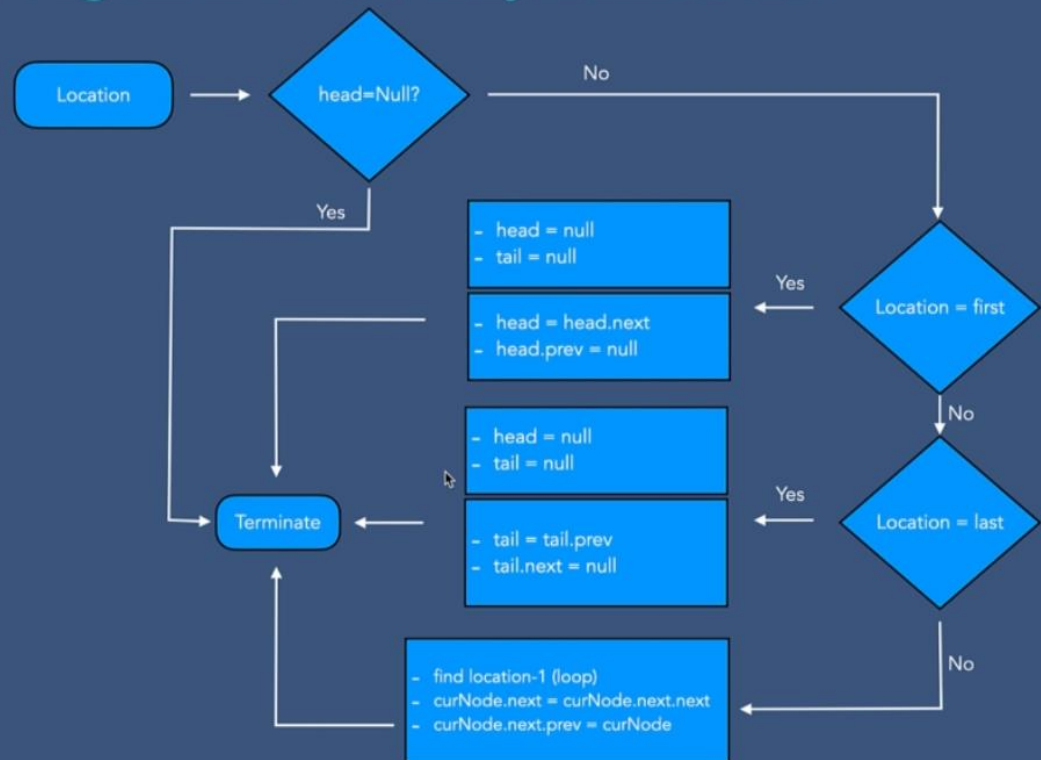
Deletion - Doubly Linked List

Deleting the last node

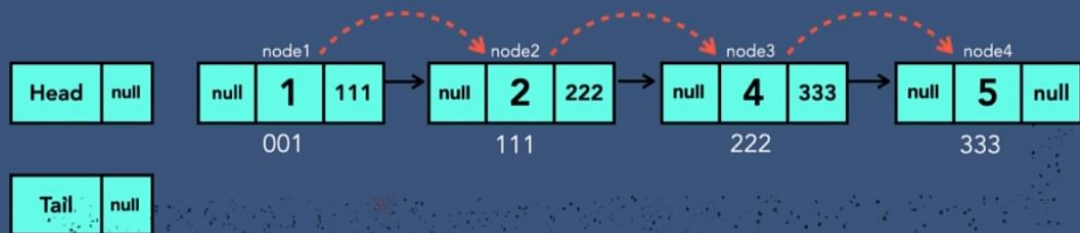
Case 2 - more than one node



Deletion Algorithm - Doubly Linked List



Delete Entire Doubly Linked List



Time and Space Complexity of Doubly Linked List

Doubly Linked List	Time complexity	Space complexity
Creation	$O(1)$	$O(1)$
Insertion	$O(n)$	$O(1)$
Searching	$O(n)$	$O(1)$
Traversing (forward ,backward)	$O(n)$	$O(1)$
Deletion of a node	$O(n)$	$O(1)$
Deletion of DLL	$O(n)$	$O(1)$

