

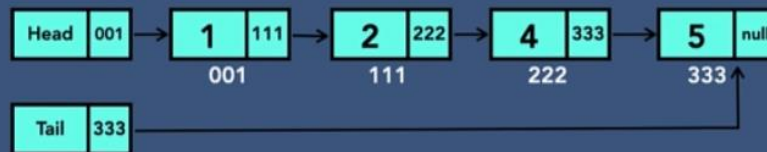
Types of Linked List

- Singly Linked List
- Circular Singly Linked List
- Doubly Linked List
- Circular Doubly Linked List

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- Singly Linked List
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Singly Linked List



Circular Singly Linked List

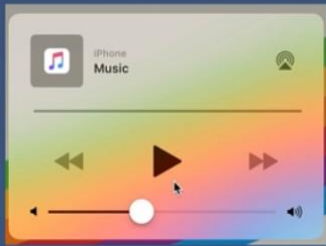


Types of Linked List

Doubly Linked List

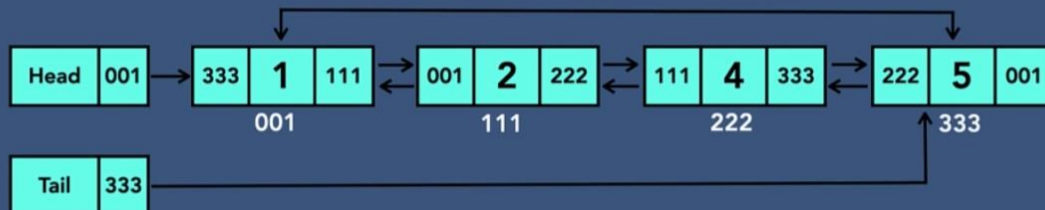


Types of Linked List



Types of Linked List

Circular Doubly Linked List



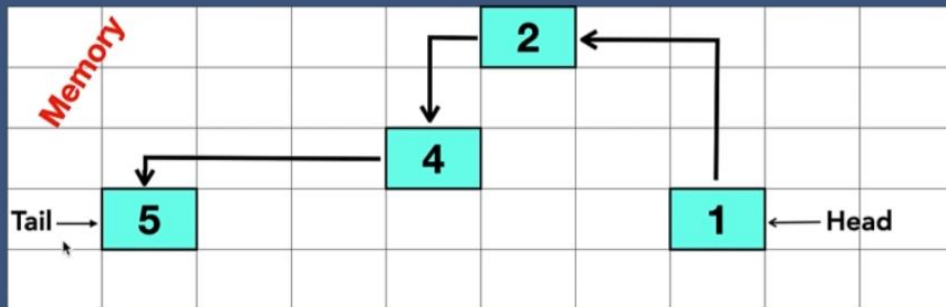
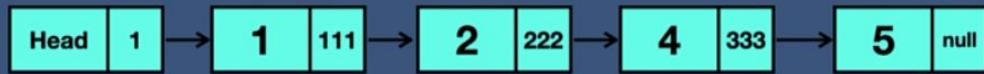
Types of Linked List

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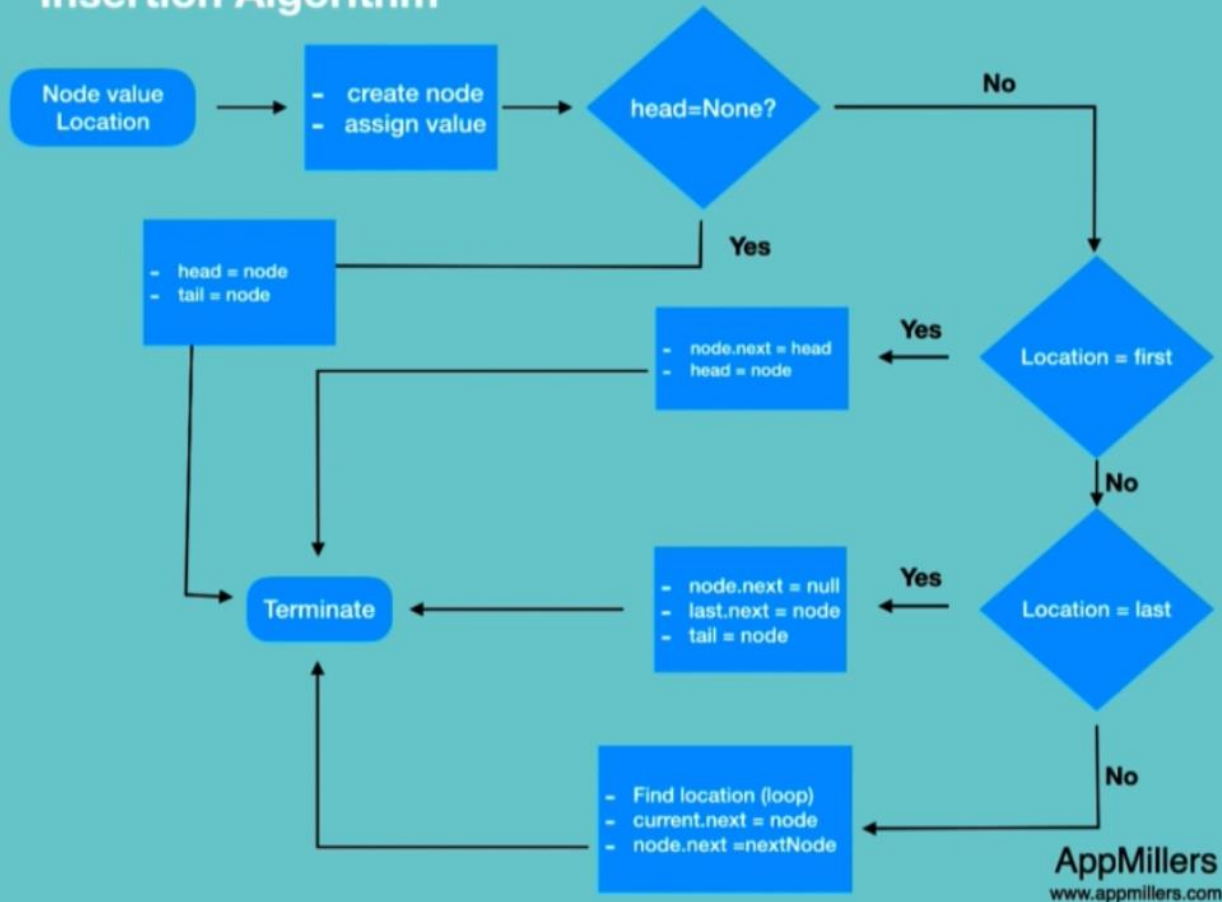


Linked List in Memory

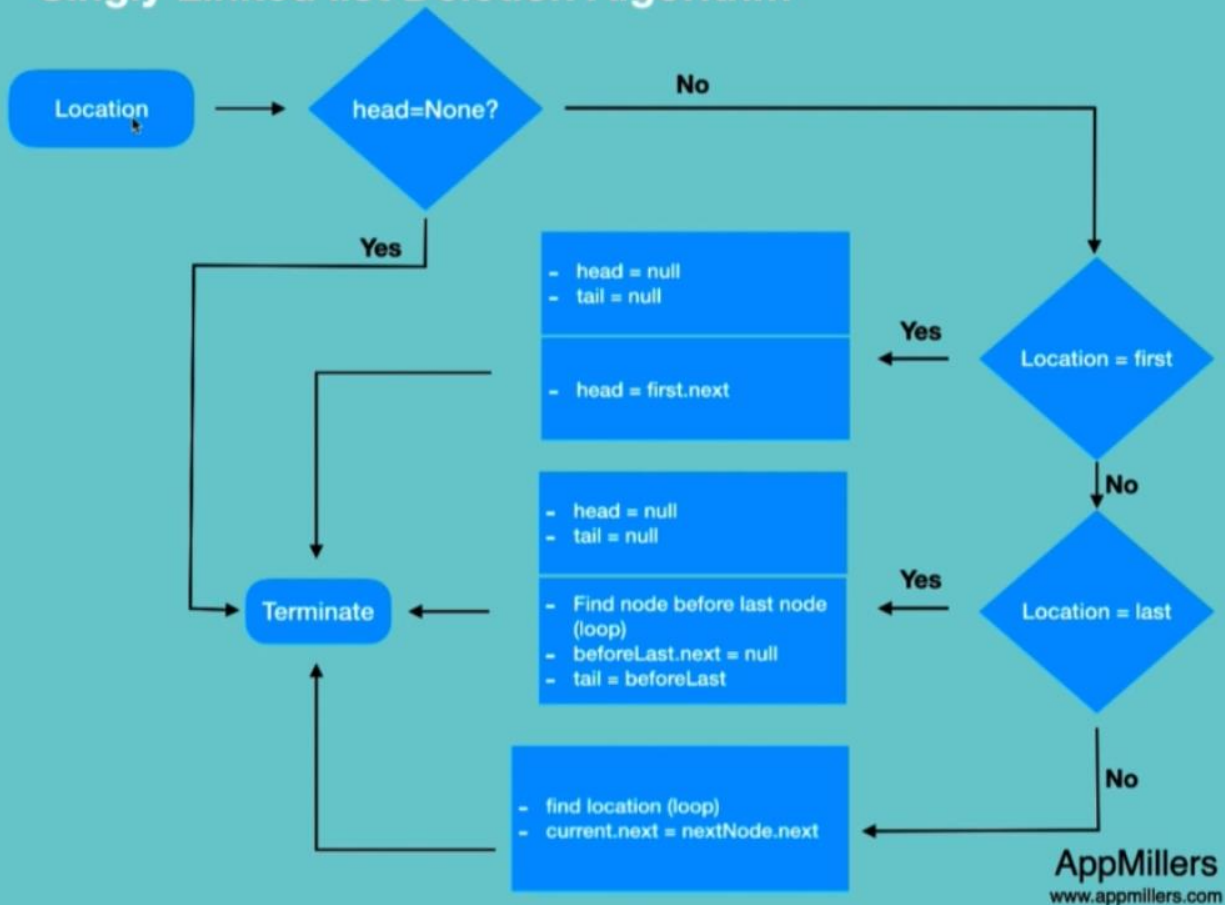
Linked list:



Insertion Algorithm



Singly Linked list Deletion Algorithm



Time and Space Complexity of Singly Linked List

Singly Linked List	Time complexity	Space complexity
Creation	$O(1)$	$O(1)$
Insertion	$O(n)$	$O(1)$
Searching	$O(n)$	$O(1)$
Traversing	$O(n)$	$O(1)$
Deletion of a node	$O(n)$	$O(1)$
Deletion of linked list	$O(1)$	$O(1)$

