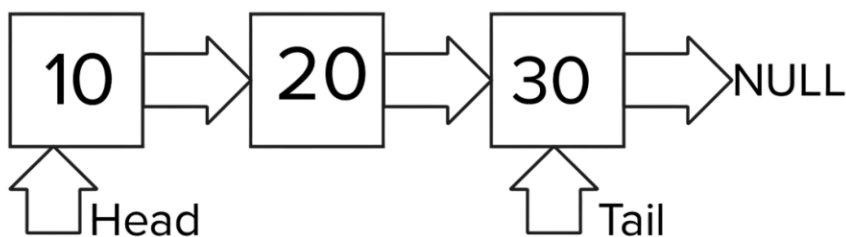
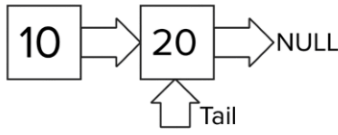
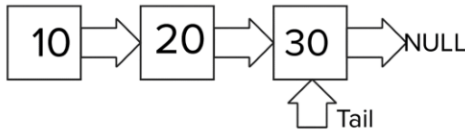
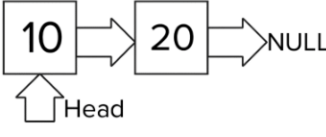
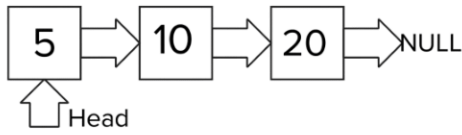


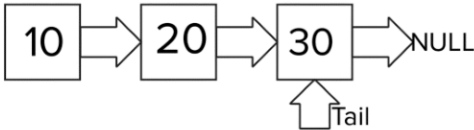
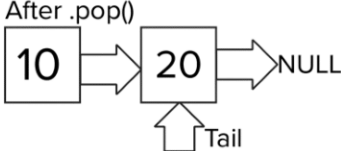
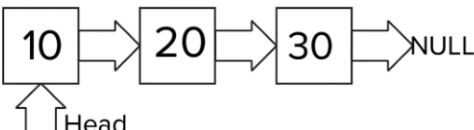
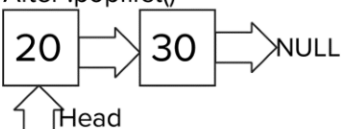
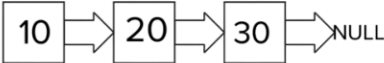
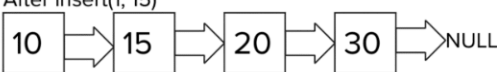
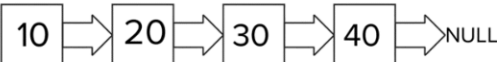
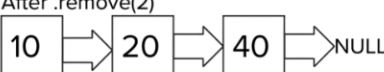
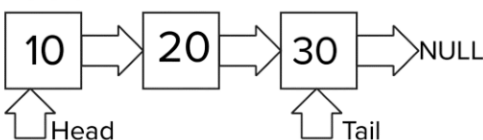
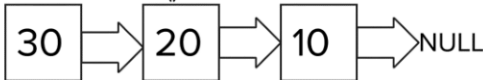
A **linked list** is a linear data structure composed of **nodes**. Unlike regular lists, its elements are not stored contiguously in memory, so each node contains a pointer to the next node's location.

Each node contains two things:

- **Value**
 - **Pointer** (to the next node)
- The **head** is the first node
 - The **tail** is the last (points to None)



Method	Visual	Time Complexity
append	<p>Before</p>  <p>After .append(30)</p> 	O(1)
prepend	<p>Before</p>  <p>After .prepend(5)</p> 	O(1)

Method	Visual	Time Complexity
pop	<p>Before</p>  <p>After .pop()</p> 	$O(n)$
popfirst	<p>Before</p>  <p>After .popfirst()</p> 	$O(1)$
insert	<p>Before</p>  <p>After insert(1, 15)</p> 	$O(n)$
remove	<p>Before</p>  <p>After .remove(2)</p> 	$O(n)$
reverse	<p>Before</p>  <p>After .reverse()</p> 	$O(n)$