

Complexity of Linked list

Now, let's see the time and space complexity of the linked list for the operations search, insert, and delete.

1. Time Complexity

Operations	Average case time complexity	Worst-case time complexity
Insertion	$O(1)$	$O(1)$
Deletion	$O(1)$	$O(1)$
Search	$O(n)$	$O(n)$

Where 'n' is the number of nodes in the given tree.

2. Space Complexity

Operations	Space complexity
Insertion	$O(n)$
Deletion	$O(n)$
Search	$O(n)$

The space complexity of linked list is **$O(n)$** .