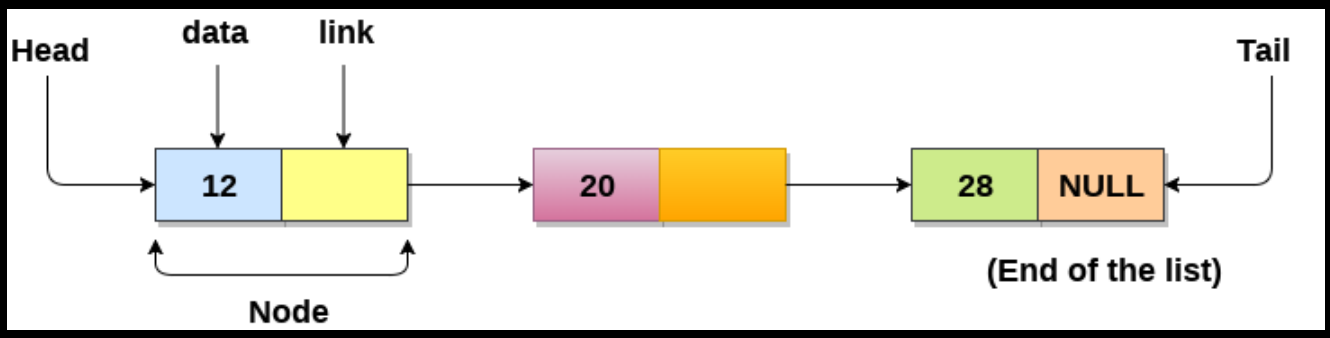
About (Singly Linked List)

Linked List is a sequence of links which contains items. Each link contains a connection to another link. Linked list is the second most-used data structure after array.

1. Linked List have first node as head and last node as tail
2. Each node has a data and reference to next list
3. Dynamic in size compared to array which has fixed size
4. No direct random access so get/set read/update become Big O as O(n)



Add Front

Adding a node as first element/node in singly linked list
Big O: O(1) constant

Get Head/First

Getting First Element/Head Node's data
Big O: O(1) constant

Get Last

Getting Last Element/Head Node's data
Big O: O(n) linear

Add Last

Adding a node as Last node
Big O: O(n) linear

Clear

Setting head as null
Big O: O(1) Constant

References

[Tutorialspoint]
[Javatpoint]
[Programiz]