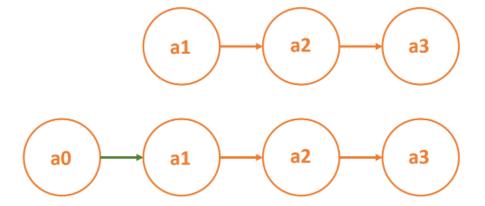
Adding a new head node in a linked list



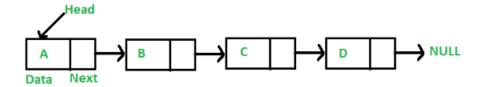
When adding a new node to the start of a linked list, it is necessary to maintain the list by giving the new head node a link to the current head node. For instance, to add a new node at to the begining of the linked list, at should point to at.

Implementing a linked list



A linked list exposes the ability to traverse the list from one node to another node. The starting node is considered the head node from where the list can be traversed.

Linked List data structure

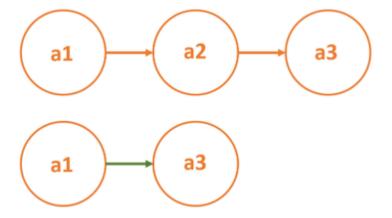


A **linked list** is a linear data structure where elements are not stored at contiguous location. Instead the elements are linked using pointers.

In a linked list data is stored in nodes and each node is linked to the next and, optionally, to the previous. Each node in a list consists of the following parts:

1) data 2) A pointer (Or reference) to the next node 3) Optionally, a pointer to the previous node

Removing a node from the middle of a linked list



When removing a node from the middle of a linked list, it is necessary to adjust the link on the previous node so that it points to the following node. In the given illustration, the node at must point to the node at if the node at is removed from the linked list.

