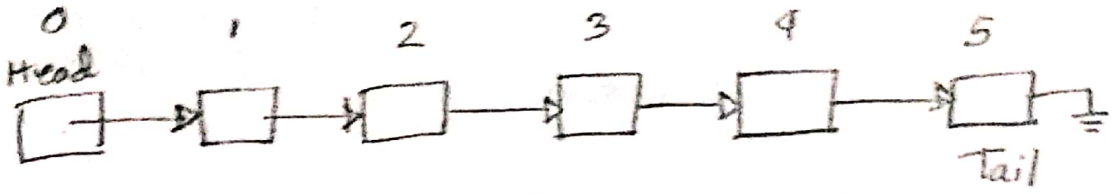
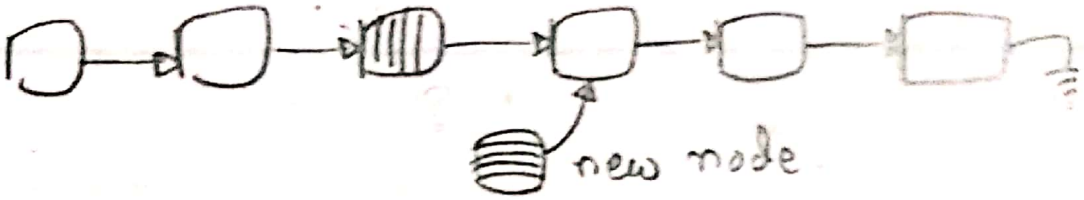


inserting a value at index (3)

(1) first start traversing from the head and reach index (3-1) = 2

(2) Create a new node and set it next link to the next link of node at index 2.



(3) Update the next link of the node at index 2.

You are done.

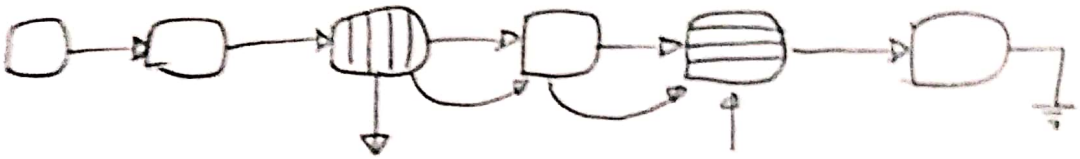
(Note that this sequencing of link update is important)

If you do it wrong, you will corrupt the linked list.

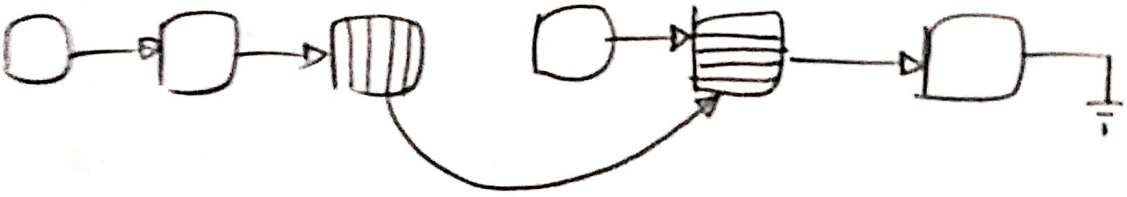
Removing the value at index (3)

(1) Start traversing from the head and reach index (3-1)=2

(2) Then hold onto element at index 2 but also traverse two more steps to reach element at index (2+1)=4



(3) Update the next pointer of the node at index 2 to point to the node at index 4.



In case of Python and Java, you are done after step 3.

In C and C++ you have to delete the node you eliminated from the List.