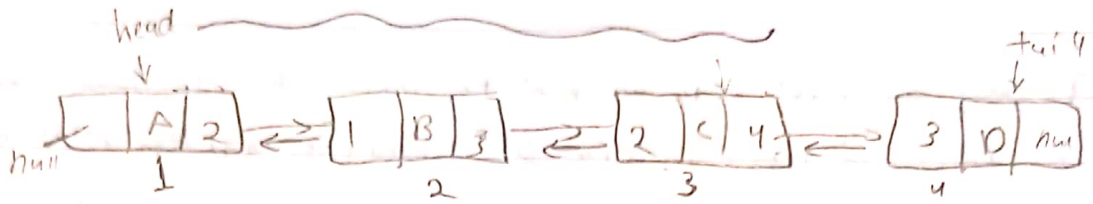
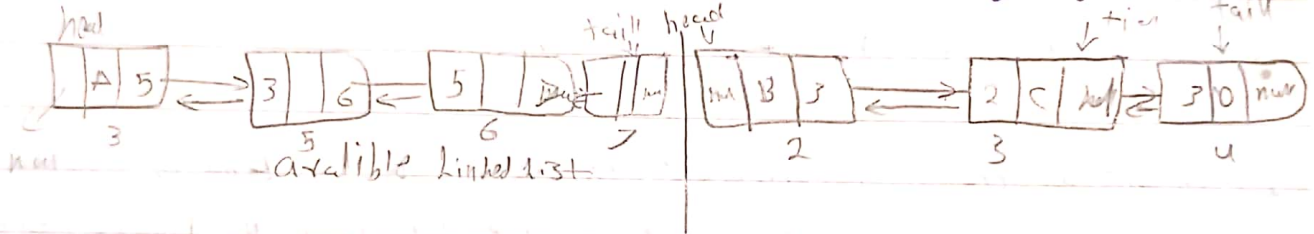


deletion in double linked list

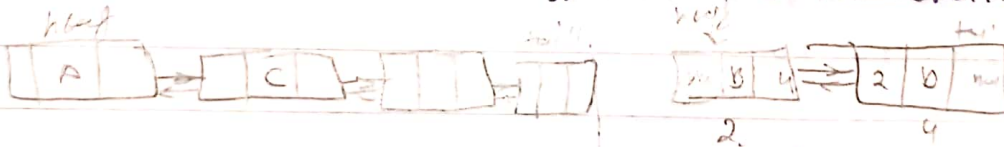


① at first :

we want to delete (A) from the linked list, firstly we make head pointing to the next node (2) and then we make previous of 2 = null and then we insert node 1 in a variable linked list.



② delete at middle : we want to delete node 3 from the linked list so we make the previous of node 4 point to node 2 and next of node 2 point to node 4 and then insert 3 to available linked list.



③

delete node at end! we want to delete node 4 from double linked list we use ~~availability~~ we make next of 2 point to null and then insert node 4 to available linked list.

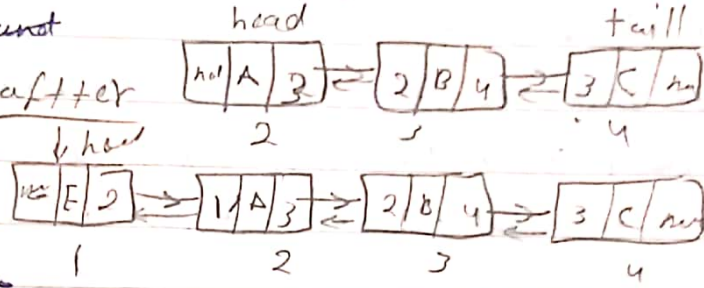


Subject :

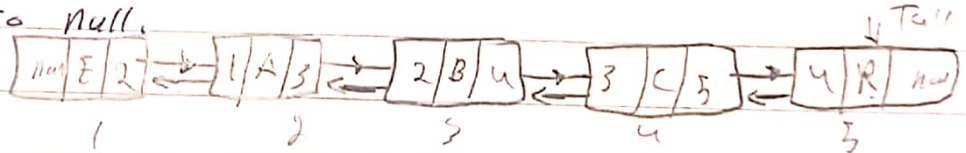
Date :

(2) Insert node to double linked list :

(1) insert at first! if we want to insert E to double linked list we put it in a node in available linked list and then delete this node from available linked list and make previous of head point to it and make head point to it and make previous of node point to after head and next to node point to head then make head point to it.



(2) insert at end! if we want to insert R to end of double linked list we use auxiliary pointer to go. we put value R in the node of available linked list and then delete node from available. then we make next of tail point to it and previous of node point to head and we make head point to node finally we make next of node point to null.



(3) insert at middle! we want to insert Z, so we put value Z in a node in available linked list, then we delete node from available linked list, we use auxiliary pointer to reach to middle. then we make next of node 2 to point to auxiliary pointer and previous of node 2 point to previous of auxiliary pointer and make previous of auxiliary pointer to point to node 2 and next of node of auxiliary pointer to point to node 2.

