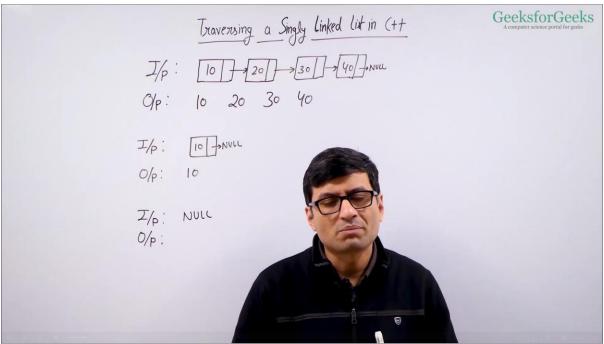
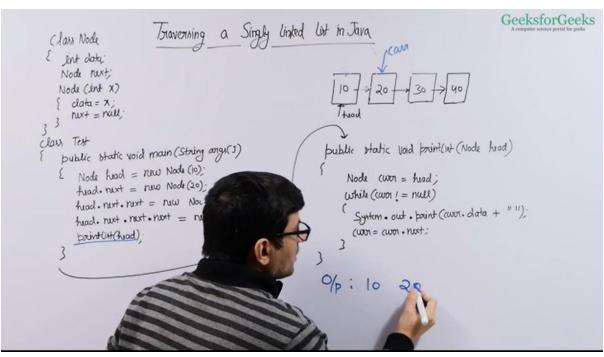


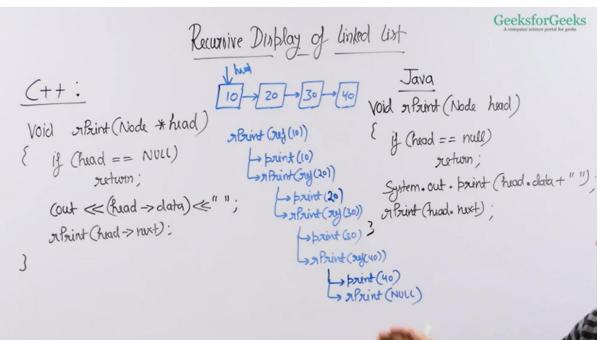
Applications of Linked List

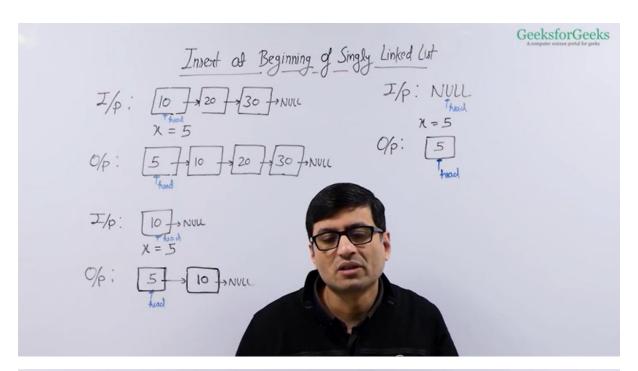
- Wornt case insertion at the end and begin an ⊕(1)
- (2) Wornt case deletion from the beginning is $\Theta(1)$
- (3) Insertions and deletions in the middle are $\theta(1)$ if we have reference to the previous node. 15 10 15 20 3
- 9 Round Robin Implementation
- (5) Menging two sontrol linked lints in farter than arrays
- 6 Implementation of simble memory managers whom we need to link from blocks
- (1) Earlier implementation of Queue and Deque data structures

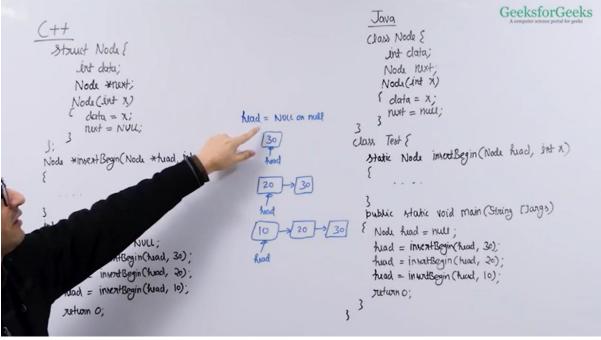


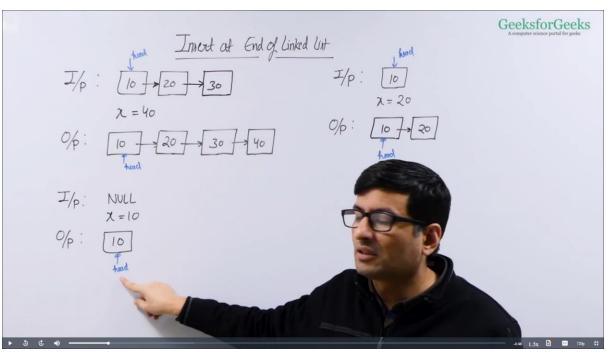


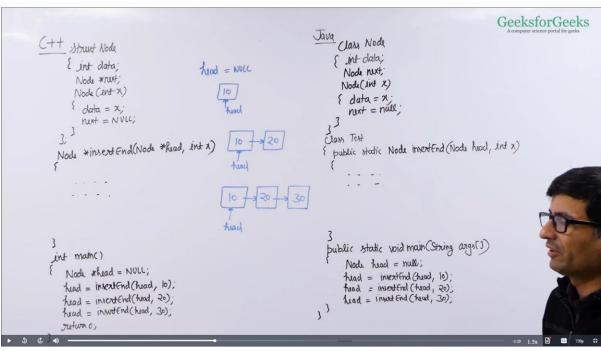




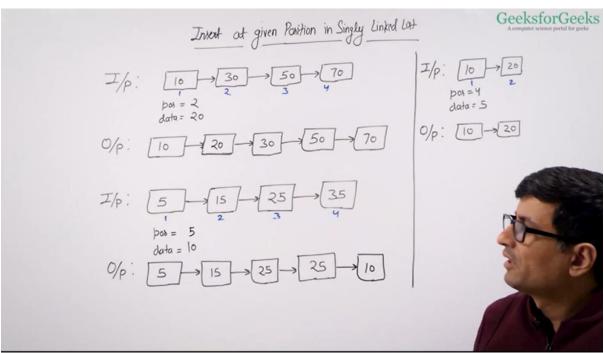


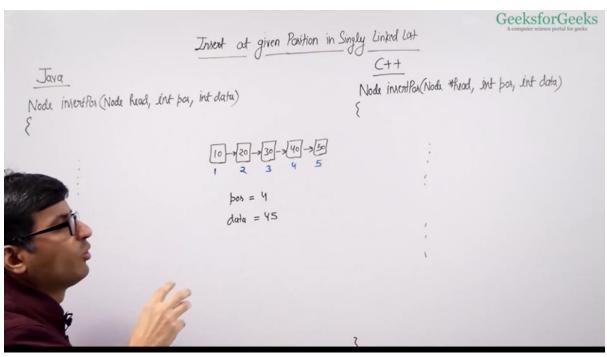


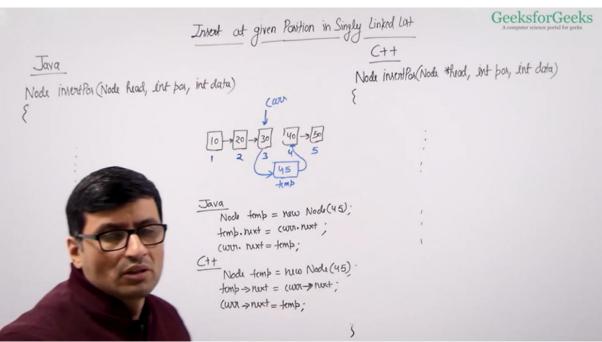


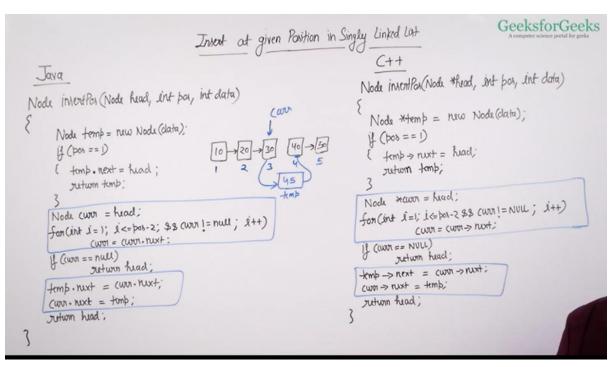


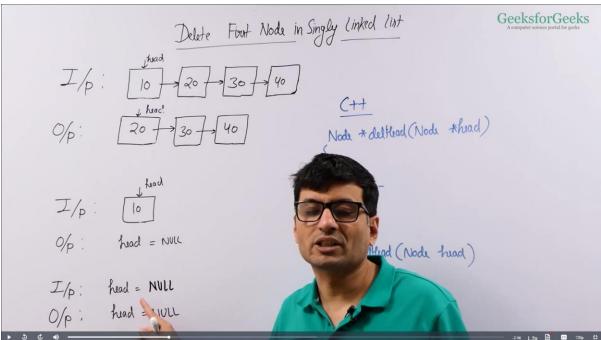


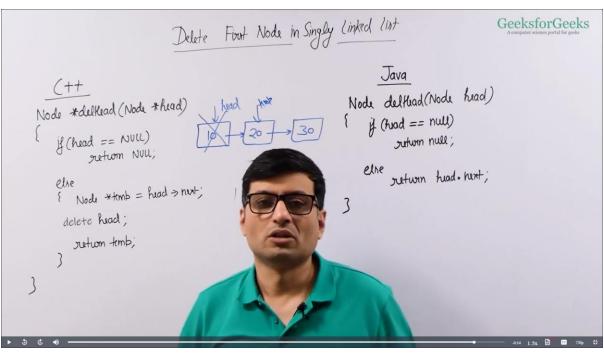


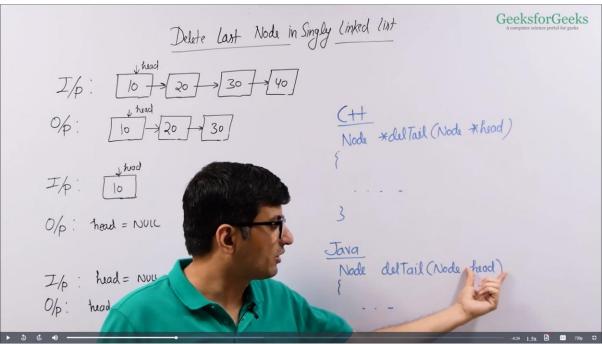


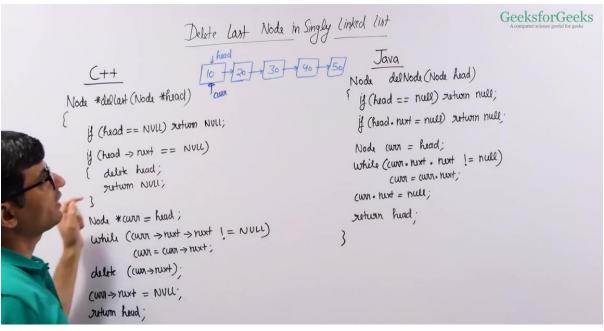


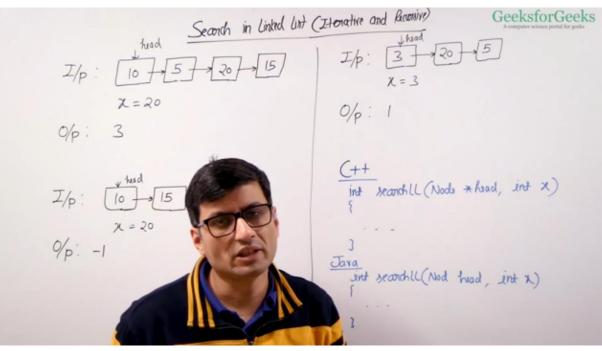


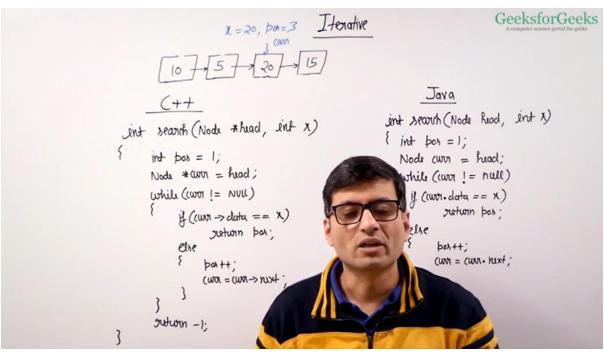


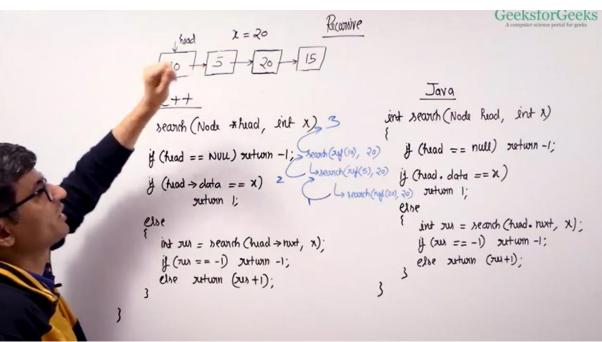


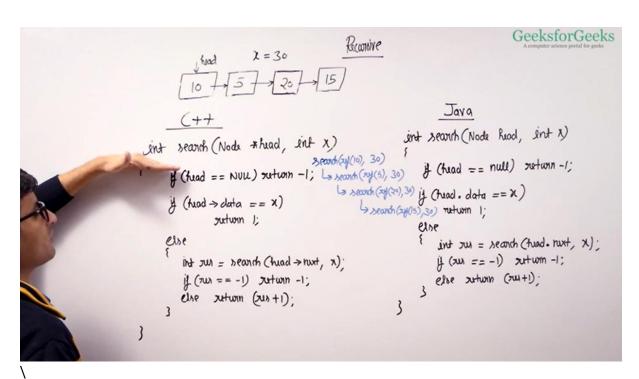


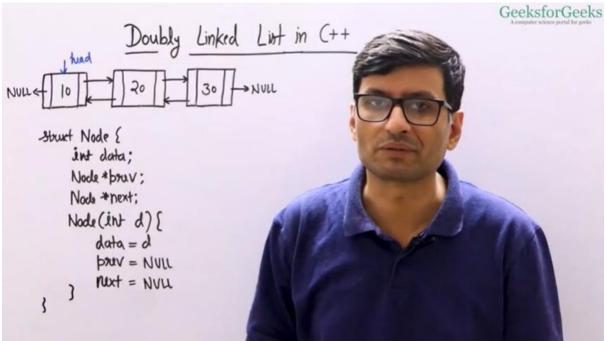


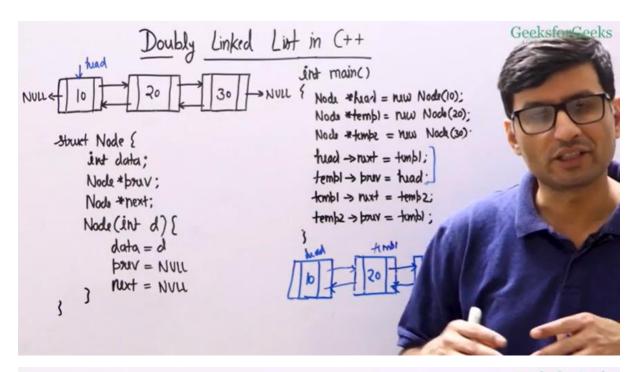


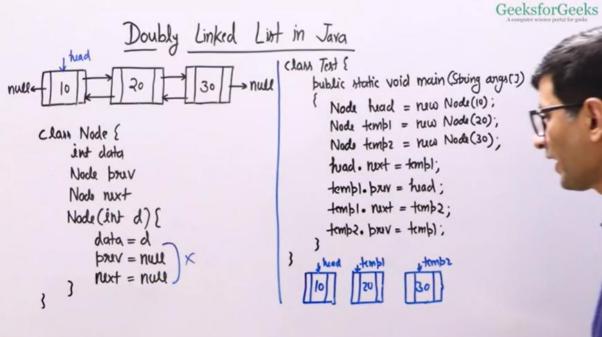


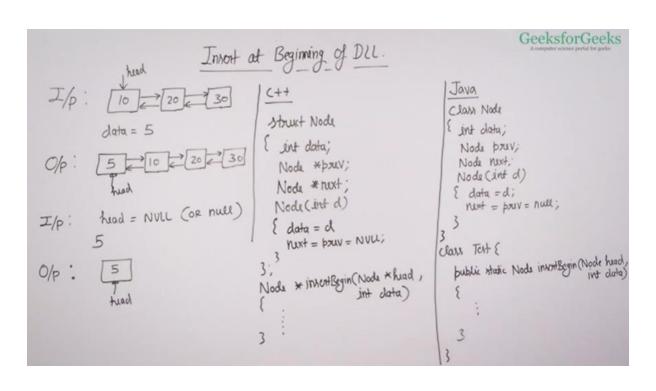


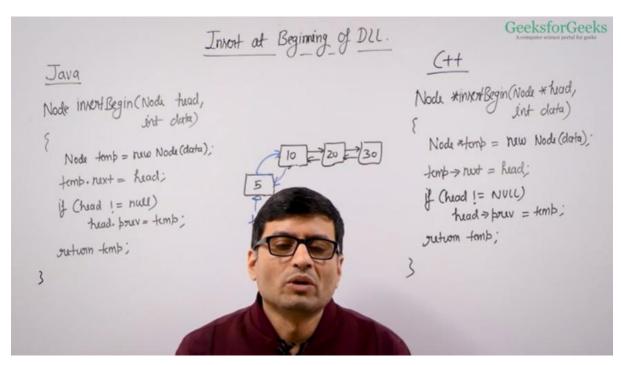


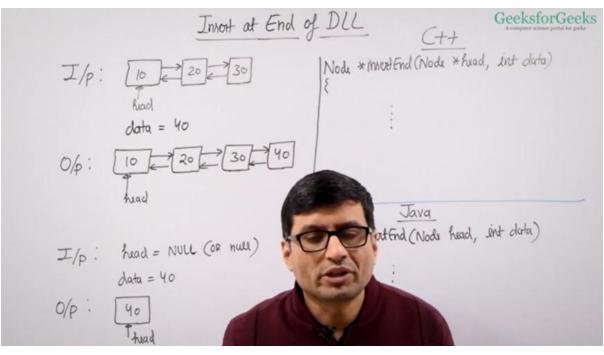


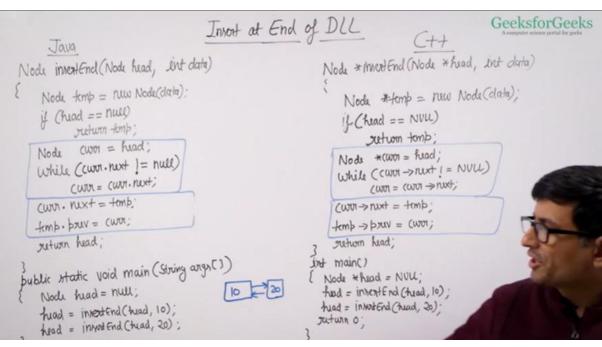


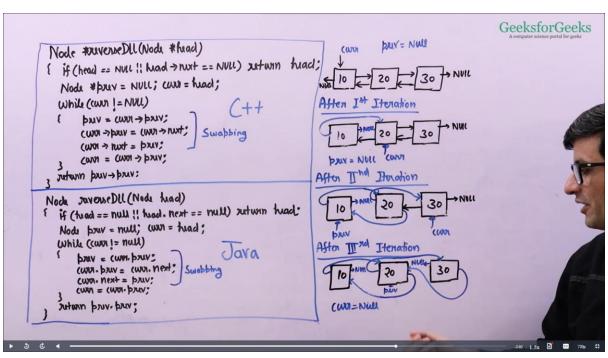


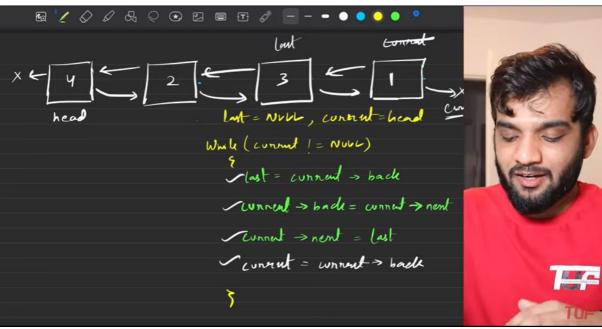


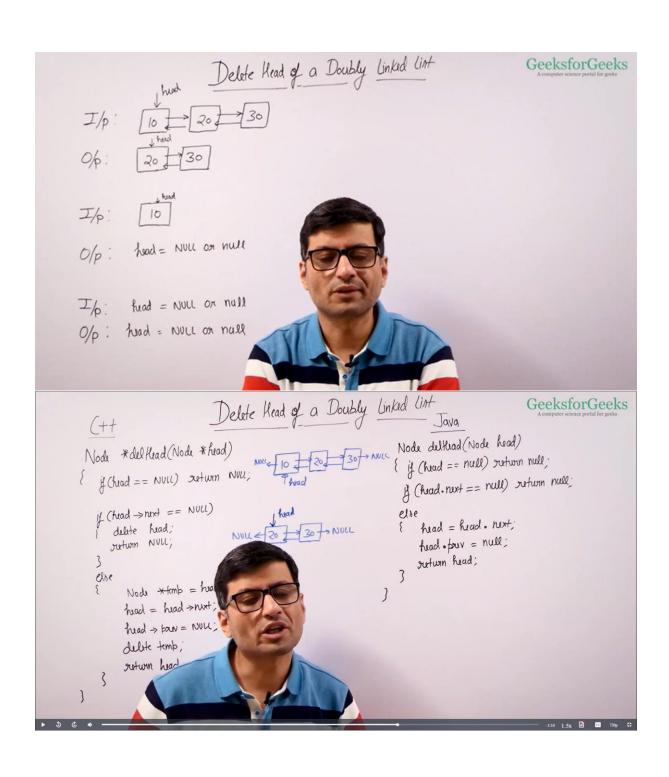


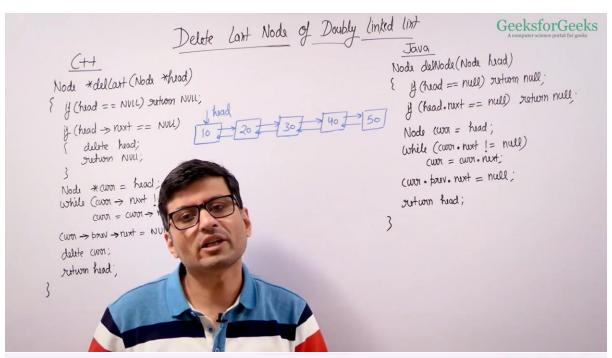


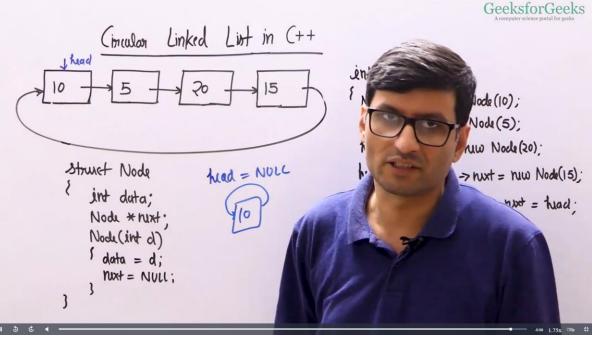




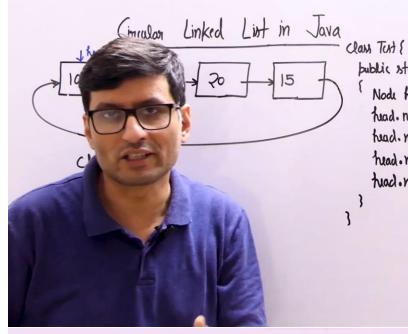












land 7(1) {

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{

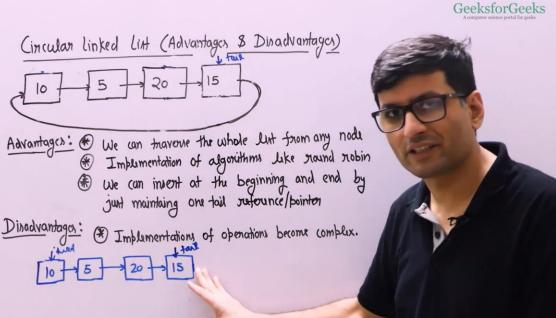
Node head = rew Node(10);

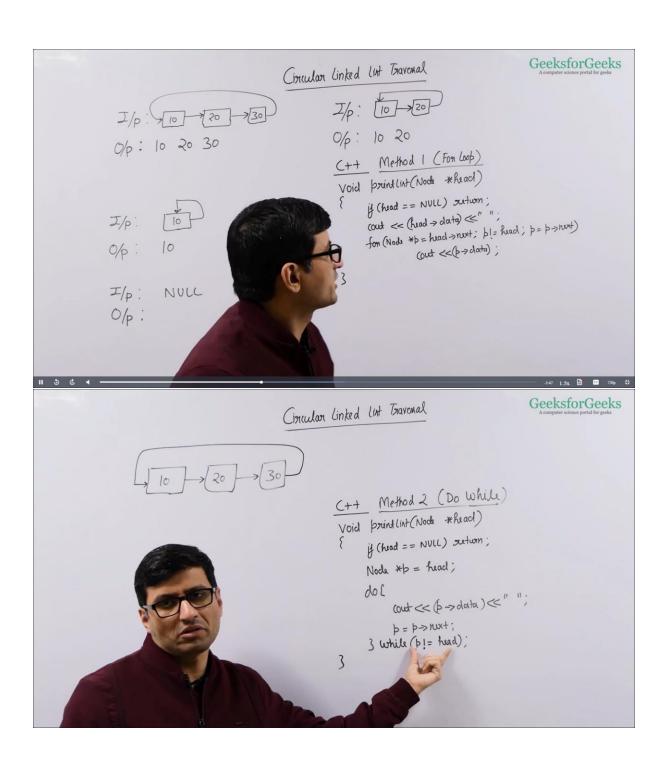
head. next = rew Node(5);

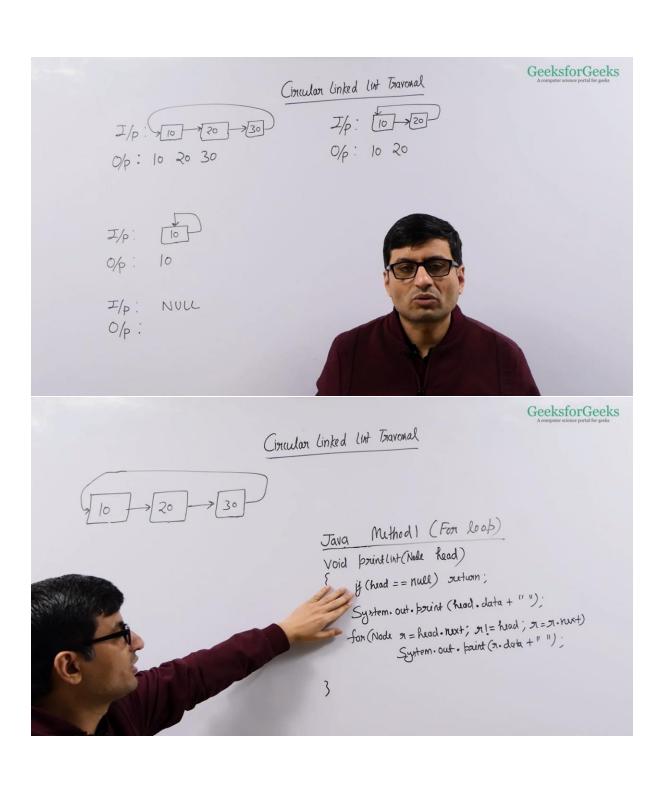
head. next. next = rew Node(20);

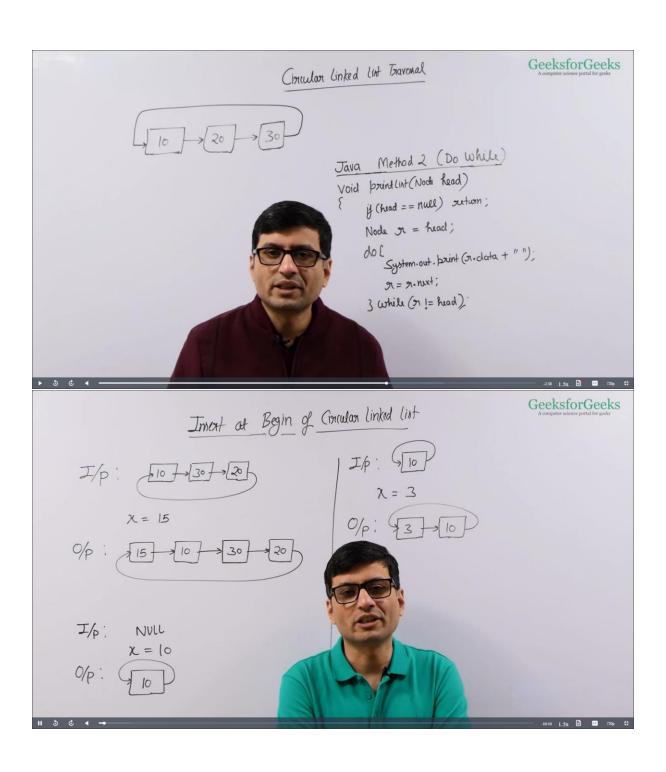
head. next. next. next = rew Node(15);

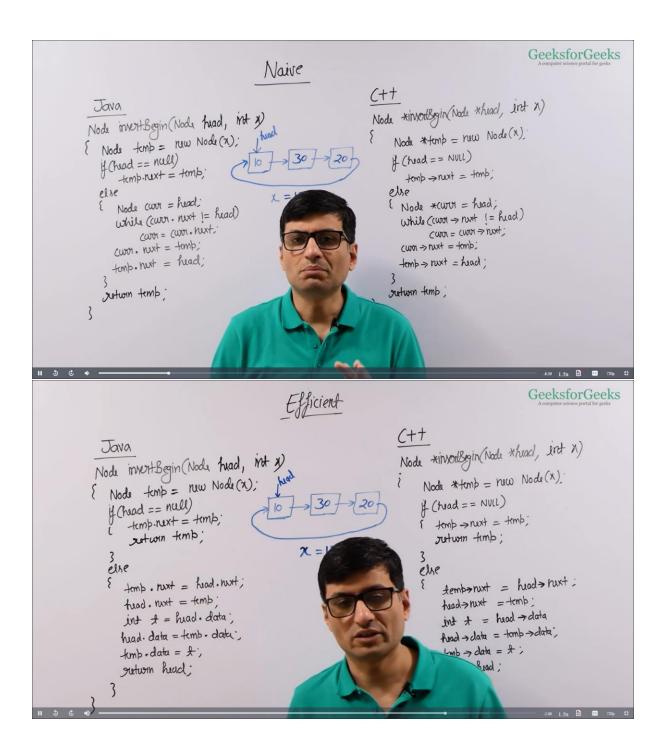
head. next. next. next. next = head;
}

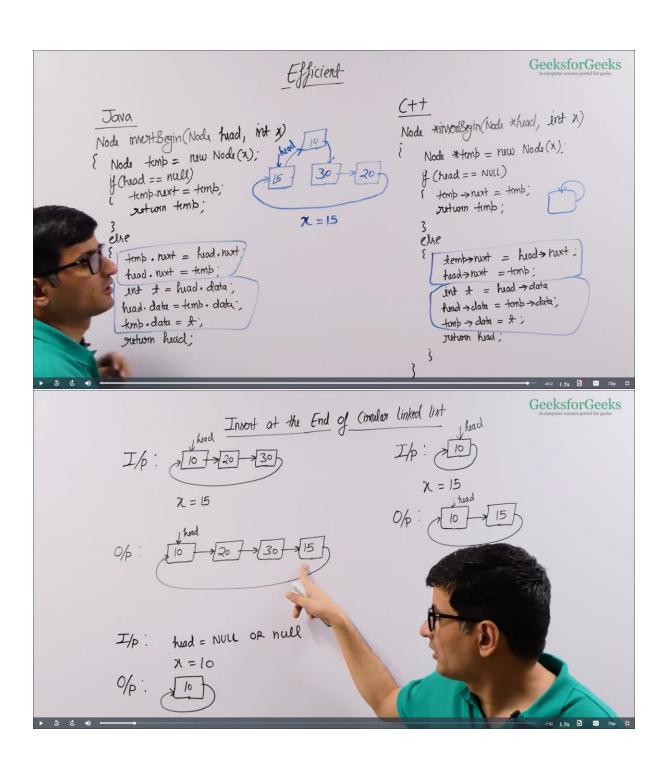


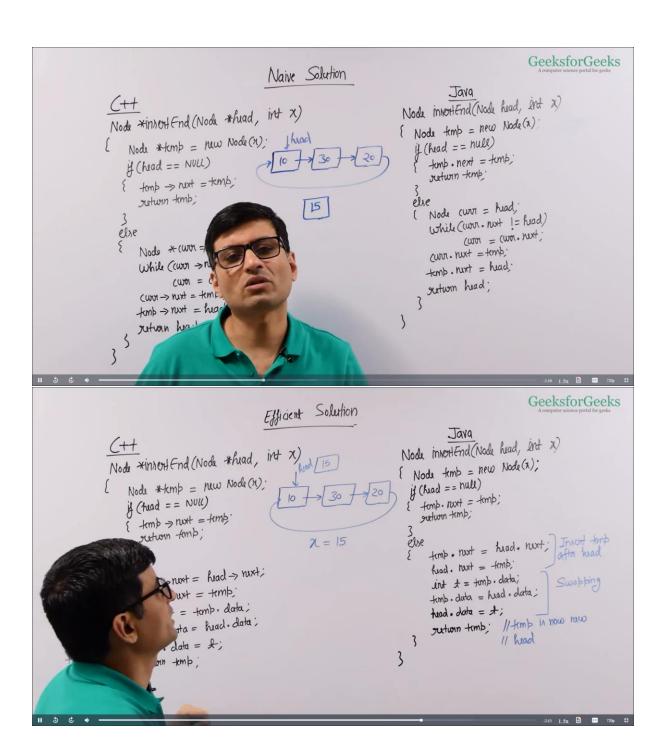


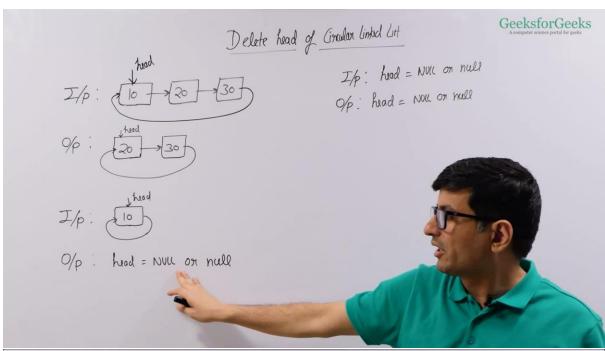


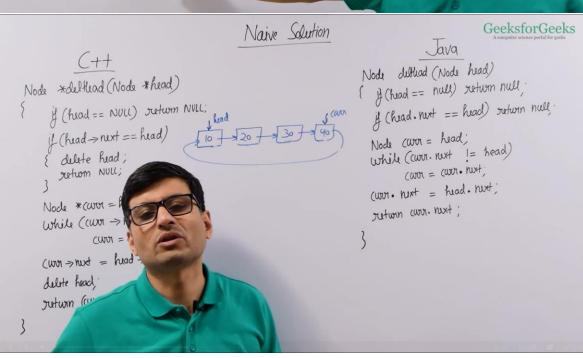


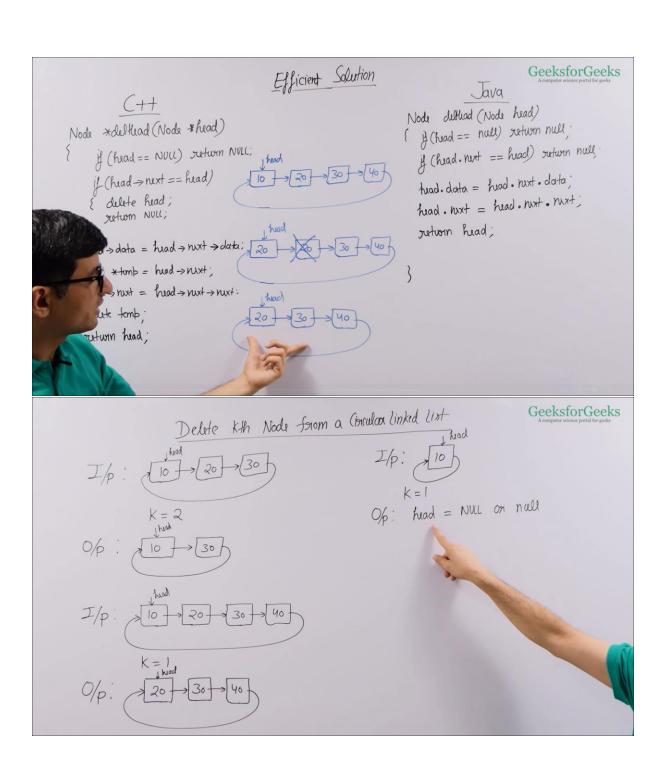


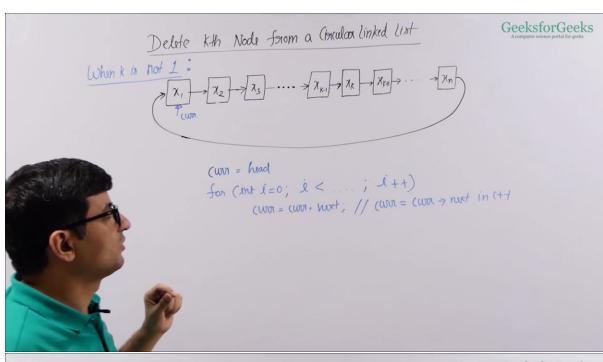












```
GeeksforGeeks
               Delste Kth Node forom a Concular linked list
                                                                 Java
      C++
                                                            Node deletekth (Node head, Int K)
Node *delete kth (Node *head, int k)
                                                           { if (head == null) return head;
( if (head == NULL) seturn head; head | work | if (K == 1)
                                                              if (K==1)
                                                                   return delete thad (head);
   if (K==1) return deletethood (head); K=3 3-2 Node (win = head; i=0: (win = (win next) for (int i=0; in = (int)
                                                              for (int i=0; i< K-2; i++)
                                                                      (wn = curn. rust)
   Node * (uron = head;
  for (int l=0, l < k-2, l++)

(un = cum \rightarrow mx+,
                                                              com. ruxt = com. ruxt. ruxt;
   Node +temp = court > nux+;
                                                               return head;
   (won > next = (won > next > next ;
   delote temb;
      un head,
```

