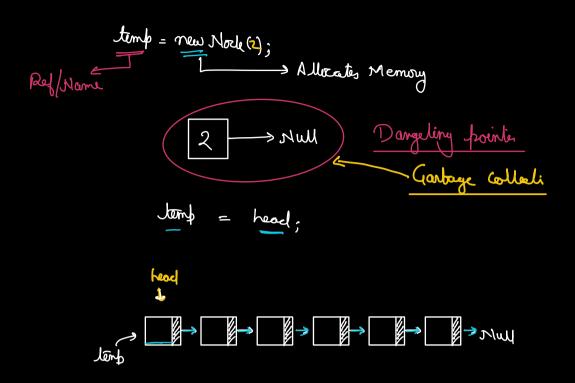
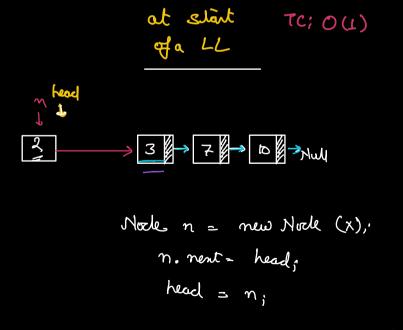
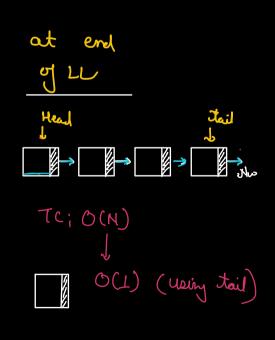
```
Class Norte of
                                         No =
       int data;
                                          N2
       Note nent;
       Public Noele (Lint a) &
            this data = 9;
            this - nent = nell;
   Crimen a LL. Reliver the length
                                        MIN
C = Ø
                    Z
                          H
       unt size ( Nocle head) &
            Norte temp = head:
            int count = 0;
            While ( temp 1 = Null) &
                 Count ++;
                temp = temp. nent,
           ret cont;
```



Insert values





Insert at Kt Pas

I lengte till (K-1)

tail

TC: O(N) => (Tail-1)

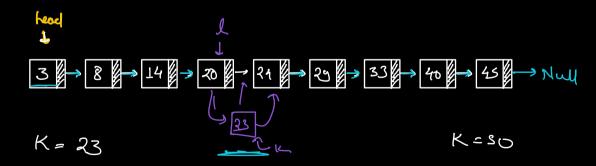
Edge Cases

- · Head is NULL
- · LL has only 1/2/3

Insertir / Deletin

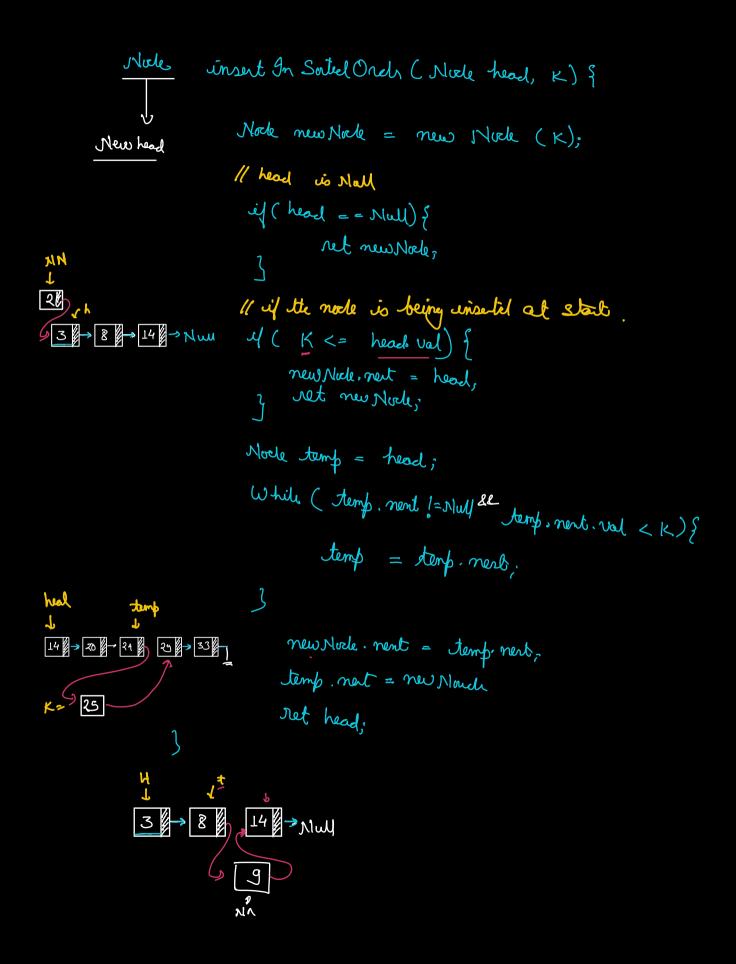
- -> at/from slait
- at / from end.

a Given a lenked tist sorted in ASC order. Insert a val in correct paretin in Sorted order.



Find the last nucle could a val smaller than K

J. K. nest = 1. nest



Revure the linked list

- · In place = without using any entre space
- · Changin ette value of a nucle is not allowed.

Local
$$1 \times 10^{-1}$$
 1×10^{-1} $1 \times 10^{$

while
$$(h1!=Null)$$
 $t=h1;$
 $h_1=h1.$ $nent;$
 $t:nent=h_2$

Q ainen a LL. Reverse the first Knocks.

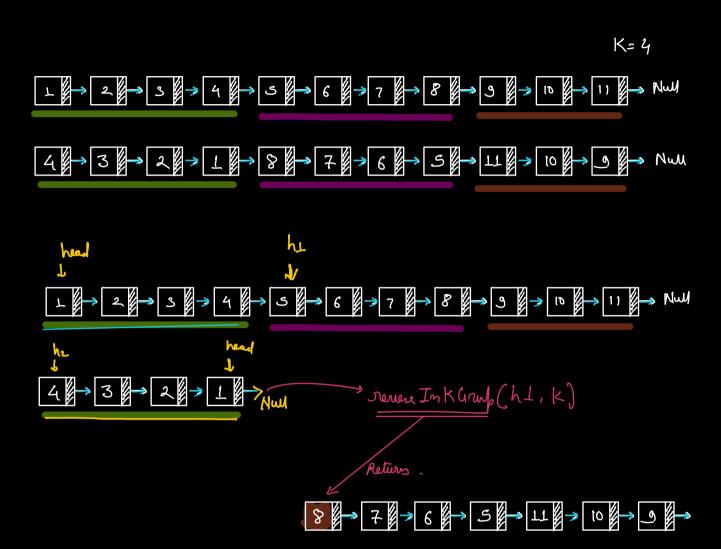
Hood

$$N_0$$
 N_1
 N_2
 N_3
 N_4
 N_5
 N_4
 N_5
 N_4
 N_5
 N_4
 N_5
 N_5
 N_6
 N

$$N_s$$
 N_s
 N_s

K=3

Google Reverse in K Groups Ginen a LL. Rever all sub-lists of size K



```
revene In K Groups ( Nock head, K) {
Node
           (Assumption: reverse Ink aroup (neck, K) will reven
                        all grups of size K in the hiel starts
                         from nede. I return the new head
               if ( K <= 1 | head== null)
                                   ret head;
                Count = K;
          // Reverse the 1st K nucles
              h2= Hull, h1 = head;

while ( h1!= mull dd K>0) f

t = h1,

h1 = h1. ment;

b. nent - h2;

h2 = t;

K--;
               head . nent = revere In K Grup (h1, count);
              ret h2;
    TC: O(N)
    SC: O(N) [ Size of nee stack = N/K
K=2, \quad N_{2} \approx O(N)
```