

```
public static class Node {
   int data;
   Node next;
}

public static class LinkedList {
   Node head;
   Node tail;
   int size;

   void addLast(int val) {
        // Write your code here
   }
}
```

LinkedList list = new LinkedList();

hist. addlast (11);)
hist. addlast(21);)

vist. addlast (31);

main list = 910

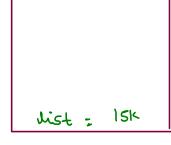
Node t=21.

int 5=3

ale LL

d = 11 n = 9k 4 = 2k 2 = 2k 2 = 2k

```
public static class LinkedList {
 Node head;
  Node tail;
  int size;
  void addLast(int val) {
   Node nn = new Node();
   nn.data = val;
   nn.next = null;
   if(size == 0) {
       //Linked List is empty
       head = nn;
       tail = nn;
    else {
       tail.next = nn;
        tail = nn;
    size++;
```



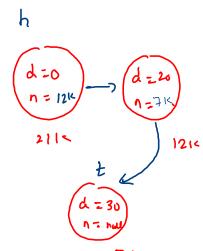
main

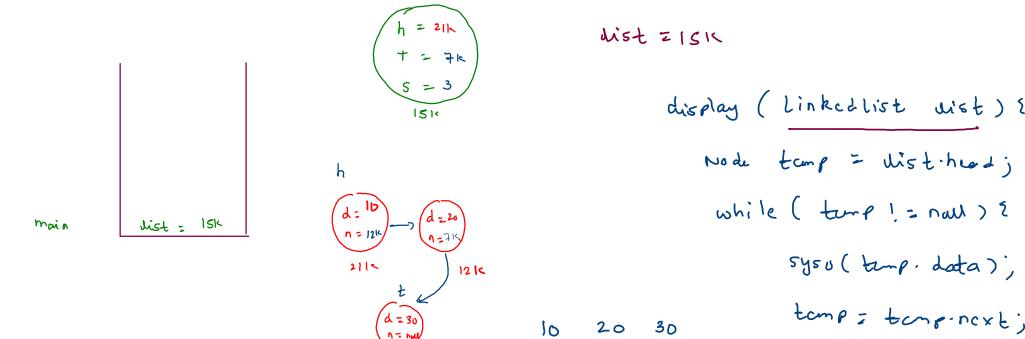
$$h = 21k$$

$$+ = 7k$$

$$S = 3$$

$$151$$





top = nul

Mist. add f (30);

Wist. add f (40);

Wist. add f (40);

Wist. add f (50);

Wist. add f (50);

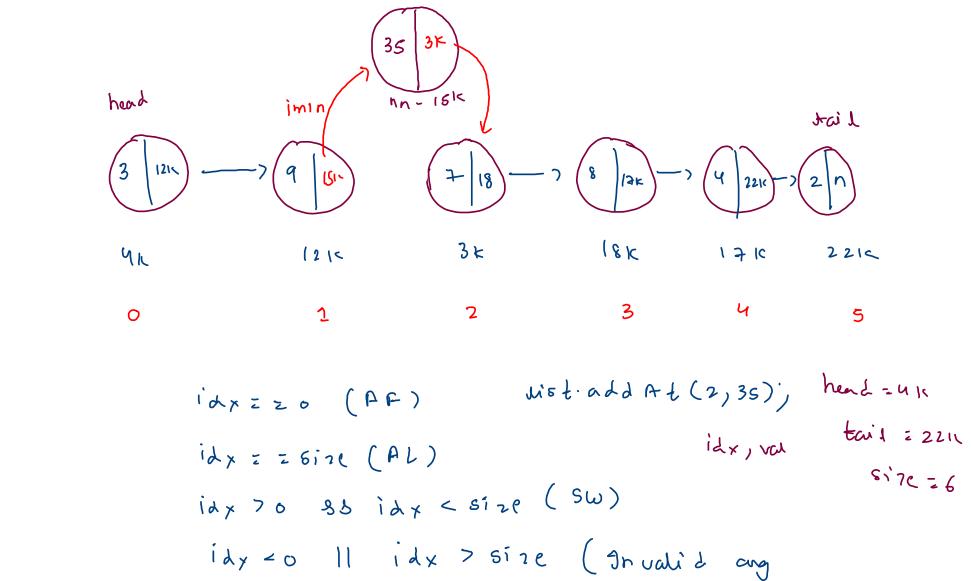
Wist. add f (50);

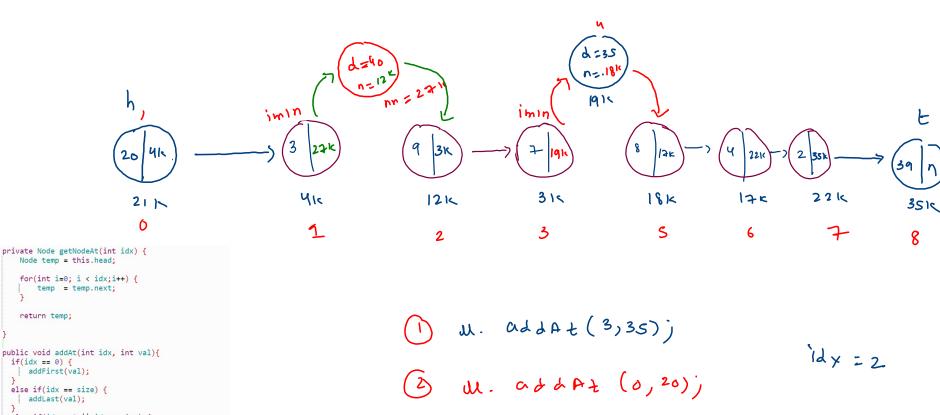
2=40

6614

d = 30

71





return temp;

if(idx == 0) {

im1n.next = nn; size++:

head han tail h = 3K 4 = 14K 5 = 5 9 = 9 = 16 = 14K

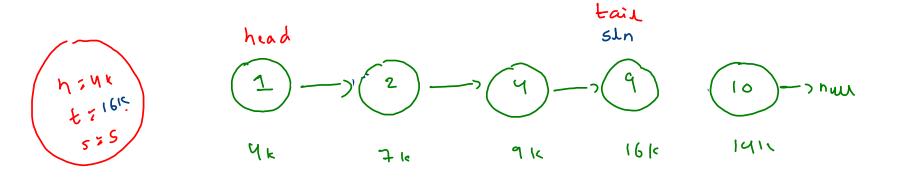
ij(size = = 0) ?

// no work;

head:next

clse ij(size = = 1) ?

head = haid =



i)(5)2e = = 0) {

// no work;

second Jast node

pusn -, 5i2e-2

head = taid = null;

else

taid = sln

idx = = 0 (8F) idx = = (size - 1) *1 idx = 2 idx > = 1 & idx > = 1 & idx < = size - 2 imin. next = imin.next - next

rourse doka 0 410 1615 101< 1215 1915 58 aie-7 O(1) No hi

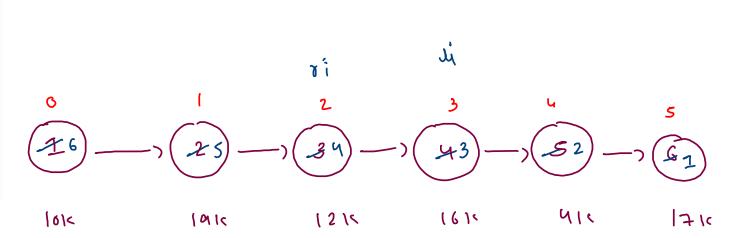
```
public void reverseDI() {
   int li = 0;
   int ri = size-1;

   Node ln = head;

while(li < ri) {
      Node rn = getNodeAt(ri);

      //swap data of left node and right node
      int temp = ln.data;
      ln.data = rn.data;
      rn.data = temp;

      ln = ln.next;
      li++;
      ri--;
    }
}</pre>
```



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Jn

Yourse Pointa tail 1712 5K null 414 9 K 71 1115 51 1910

u = c.vexf

c. next = P

time- O(n)

Space - 0 (1)

(* *) head tai 1 Prou 7K 1116 public void reversePI(){ // write your code here Node prev = null; Node curr = head; 9 K イド 1110 51 1916 while(curr != null) { //backup Node next = curr.next; //reverse link curr.next = prev; Space - , O(1) //move prev = curr; curr = next; time - , o(n) //swap head, tail Node temp = head; head = tail; tail = temp;

Cum