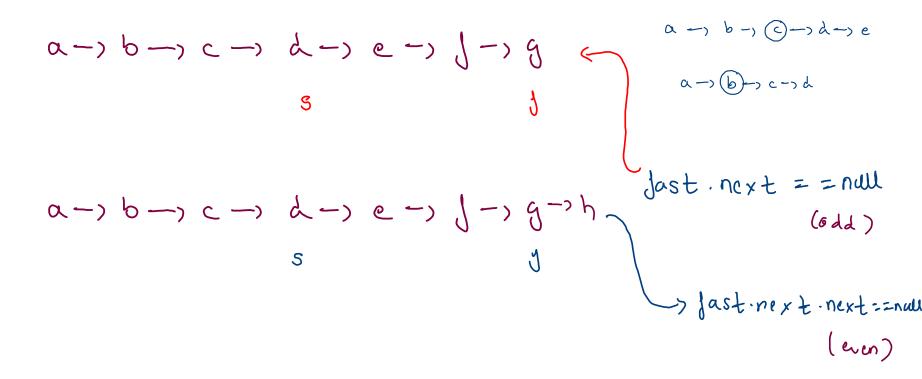
## Reverse A Linkedlist

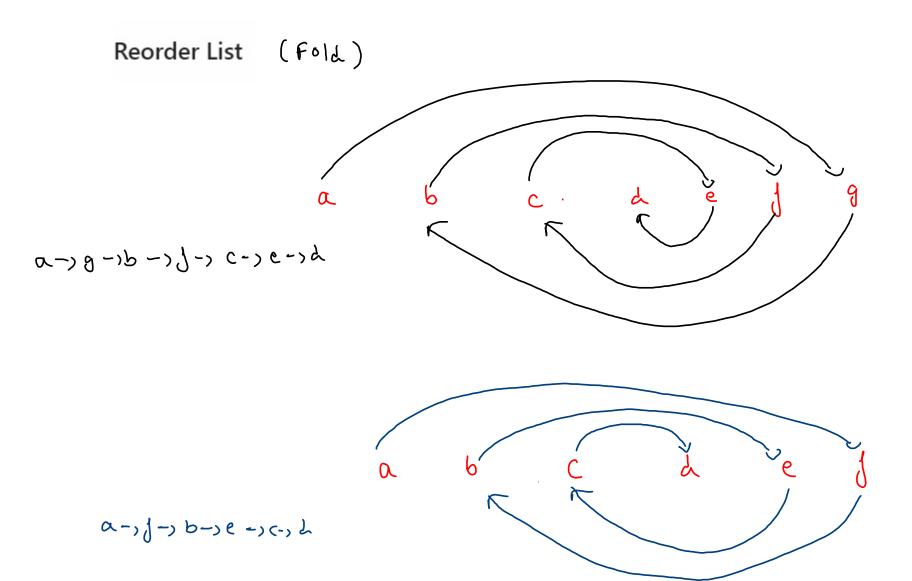
by pointon iteravative



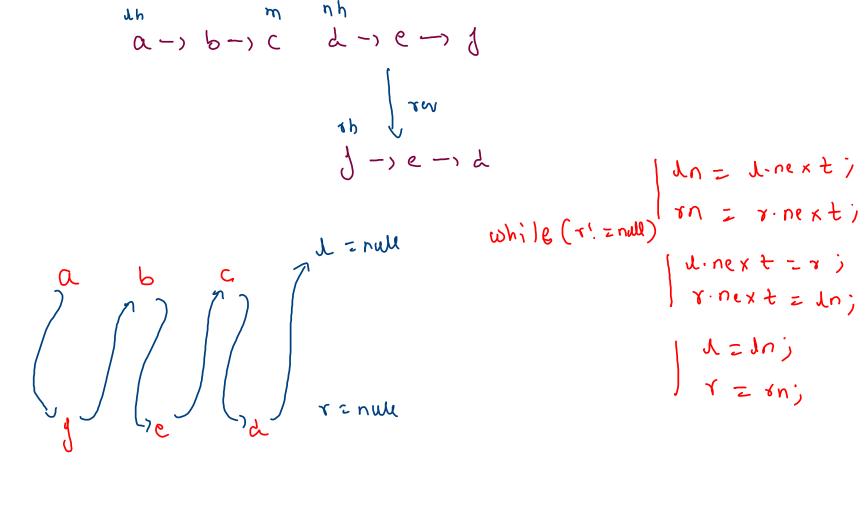
a-)b-)c-)d-)e-)J-)g-)h sJast ==null

Palindrome Linked List

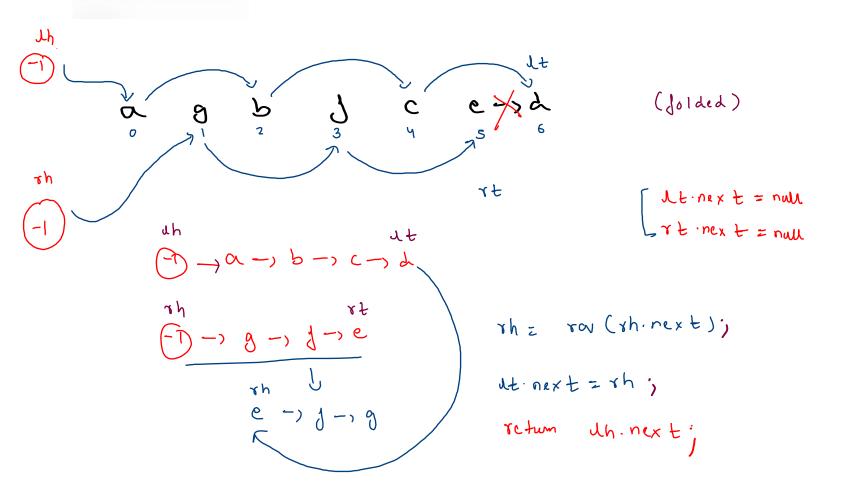
nh-> minext minext = num wh = rev(nh);



a-, b-, c-, d e-, j-, g lh 1 rav
8 -> 1-> e T : o(n) 5: O(1) while (x 1=null) | xn = x.next; | dinext=x; ) x = xn;

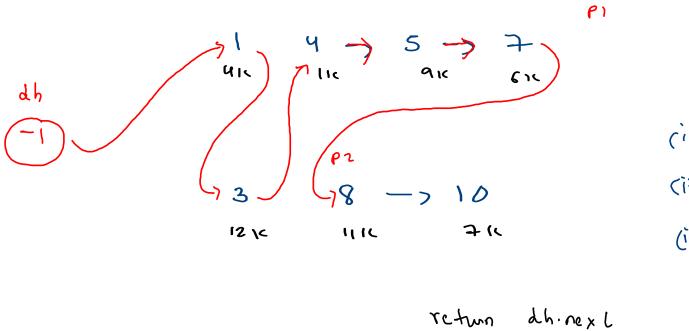


Unfold Of Linkedlist



0(n) -1-

```
public static void unfold(ListNode head) {
                                                                             Flag = F
   ListNode lh = new ListNode(-1); //dummy
   ListNode lt = lh;
                                          Jh,
   ListNode rh = new ListNode(-1); //dummy
   ListNode rt = rh;
   ListNode temp = head;
   boolean flag = true;
   while(temp != null) {
       if(flag == true) {
          //add in Left part
          lt.next = temp;
           lt = lt.next;
                                           Tho.
                                                                                                                       七
       else {
          //add in right part
          rt.next = temp;
           rt = rt.next;
       flag = !flag; //tweak
       temp = temp.next;
                                                                                      -, a-, b-, c-, d-
   rt.next = null;
   rh = reverse(rh.next);
   lt.next = rh;
```



dt

retun

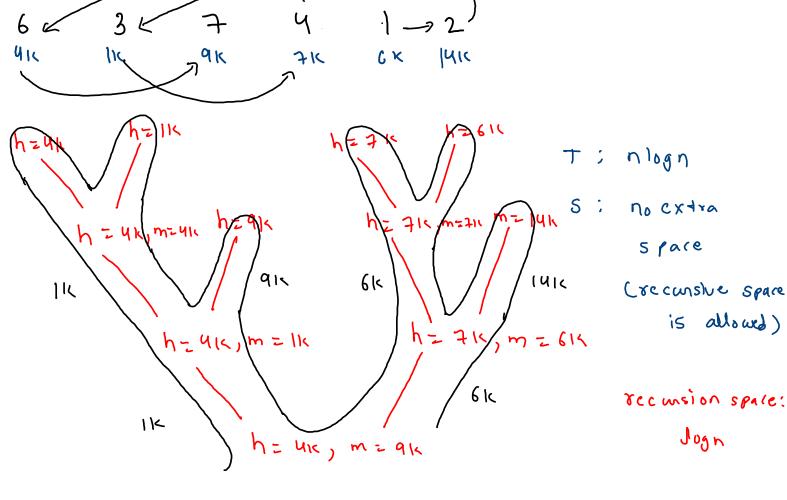
(i) 0 (n+m)

(ii) o(1)

(iii) without

multiple times

Mergesort Linkedlist



616