```
8th March
```

```
08 March 2022 21:08
      32 49 58 67 <u>91</u>
10 => 20 => 30 => 40 => 50 => 50 -> 40 +30 => 20 -> 10
 Reverse a LL3-
· Døa Reversal =
   So - 40 - 30 - 20 - 10
                   10 + 20 + 30 + 40
                                     data Peners () &
   get At Cidn) {
                                    ushi le (125:3e/2) {
  Ylian & Ollian > size
    rows null;
                                     l = get A+(i);
    whole (izidn) {
                                       n = get A+(size-1-i)
   ? Node = node. nent
                                     sump ( l, r);
     return no de:
                                         + (=) O(n)x(O(n)+O(n))
    TC=) O(n)
                                        =2n^{2}=O(n^{2})
                                      NUL 10 = 20 = 30 = 40 = 50
  Pointer Reversal
  107207307 407507nul
635627 € 16 E 10 E 233
                                               Pointes Rev () of
                                               Panull
    P= null
                     T. (=) O(n)
                                              C= head
                                              while (c!=null) of
    C= 35
                                                N = C. next:
  c. next = P
                                               C = N
```

```
3 Newd: P;
nult 10 < 20 < 30 < 40 < 50 null
                                                      public void pointerRev() {
                                                         Node p = null;
                                                         Node \underline{c} = this.head;
     P = AND 1020 30540 50
                                                          while (\underline{c} != null) {
                                                             Node n = \underline{c}.next;
     C=1620304050 null
     N=2030 4550 null
                                                         this.head = p;
  Find the mid in LL: 3-
                                    Size.
                                                 5+1
    10 + 20 + 3.0+ 40 +50 + null
                                                 J-+2
                                     S= j= head:
                         while frankl & frankl = null) of

s=s new.

rent:

7 - new. new.
    Palindran LLS - https://leetcode.com/problems/palindrome-linked-list/
      1 3 2 3 2 3 2 3 1 9 null
                                                     1234321
       Tc=)0(n2) O(n)
```

Intersection LL %-

A
$$10 \rightarrow 20 \rightarrow 30$$

B $90 \rightarrow 80 \rightarrow 100 \rightarrow 110^{3}$ Bi

A. Size = 6

B. Size = 7

B. Size = 7