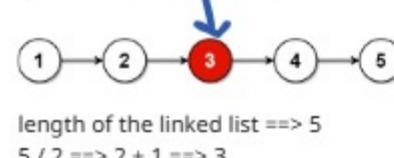
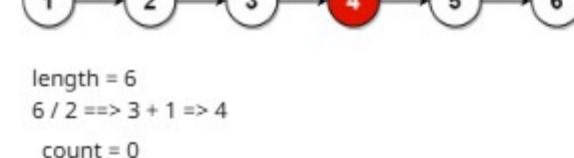


- 1) Create a singly linked list
- 2) Insert a node in between
- 3) Reverse a singly linked list
- 4) Middle of the linked list



length of the linked list ==> 5

$$5 / 2 ==> 2 + 1 ==> 3$$



length = 6

$$6 / 2 ==> 3 + 1 ==> 4$$

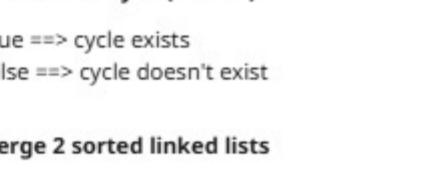
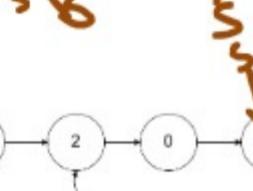
count = 0

80% ==> linked list problem

slow fast pointer pattern

slow pointer ==> +1

fast pointer ==> +2



Linked List Cycle(no end)

true ==> cycle exists

false ==> cycle doesn't exist

Merge 2 sorted linked lists

L1
10 => 12 => 14 => 25 => 56

L2
4 => 6 => 8 => 15 => 100

4 => 6 => 8 => 10 => 12 => 14 => 15
L1 10 => 12 => 14 => 25 => 56
L2 4 => 6 => 8 => 15 => 100 ==> 150 ==> 200



ListNode newNode = new ListNode(0);

ListNode anotherNode = newNode;

while(l1 != null && l2 != null)

{

}

else if(h2.val < h1.val)

{

}

}



10 ==> 60 ==> not equal

10.next ==> 20

60.next ==> 70

20.next ==> 30

70.next ==> 80

30.next ==> 40

40.next ==> 50

50.next ==> 60

60.next ==> 70

70.next ==> 80

80.next ==> 90

90.next ==> null

30.next ==> 40

h1 = null

h2 = 40

h1 = 60

h2 = 40

60.next ==> 70

40.next ==> 50

