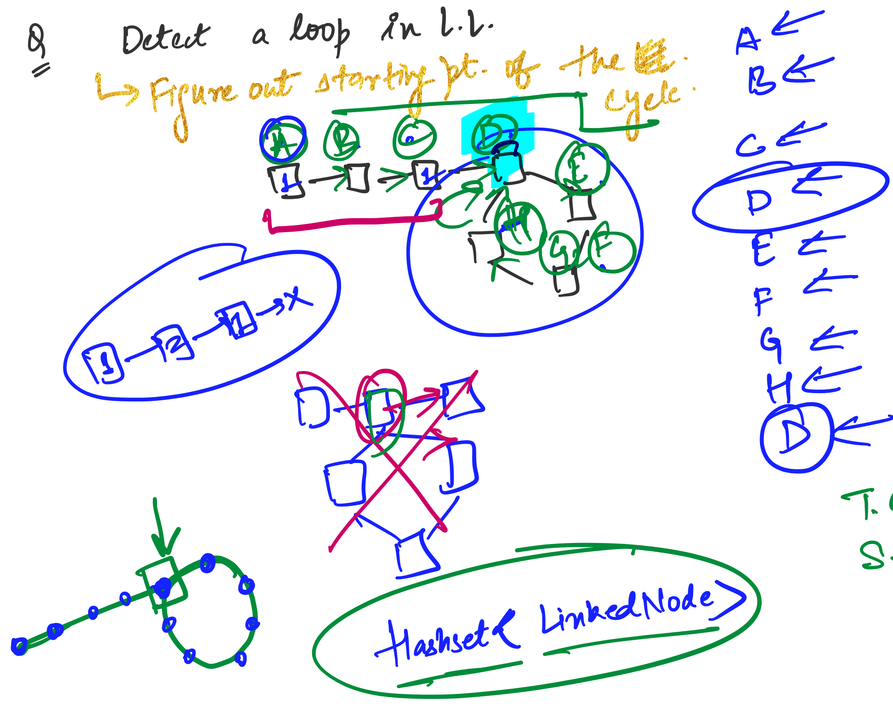
Q = Detect a loop in L.L.

↳ Figure out starting pt. of the cycle.



T.C = O(N)

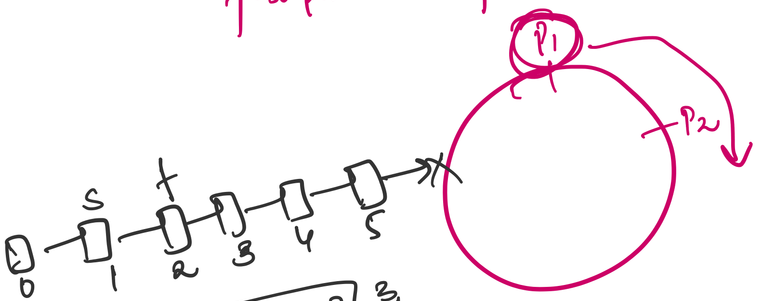
S.C = O(N)

Hashset< LinkedNode >

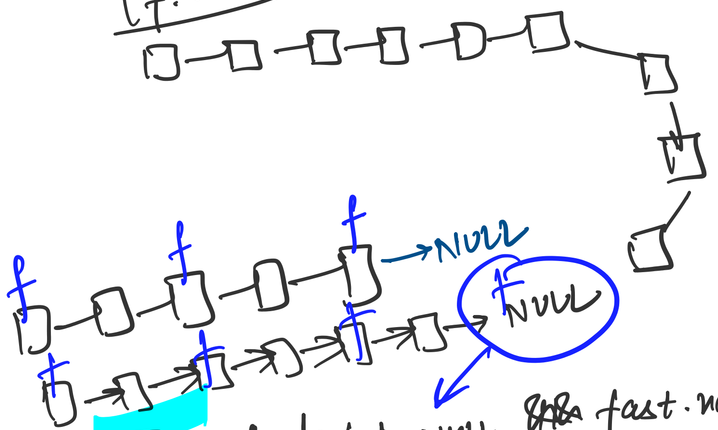
Approach 2.

slowptr. : slow.next

fast ptr. fast.next.next



Speed(P1) = 2*(P2)




```
while( fast != NULL && fast.next != NULL){
    slow = slow.next;
    fast = fast.next.next;
    if (slow == fast) return true;
}
return false;
```

position of meeting

```
slow = head.
while(1)
    slow = slow.next
    fast = fast.next
    if (slow == fast) return slow;
}
```