

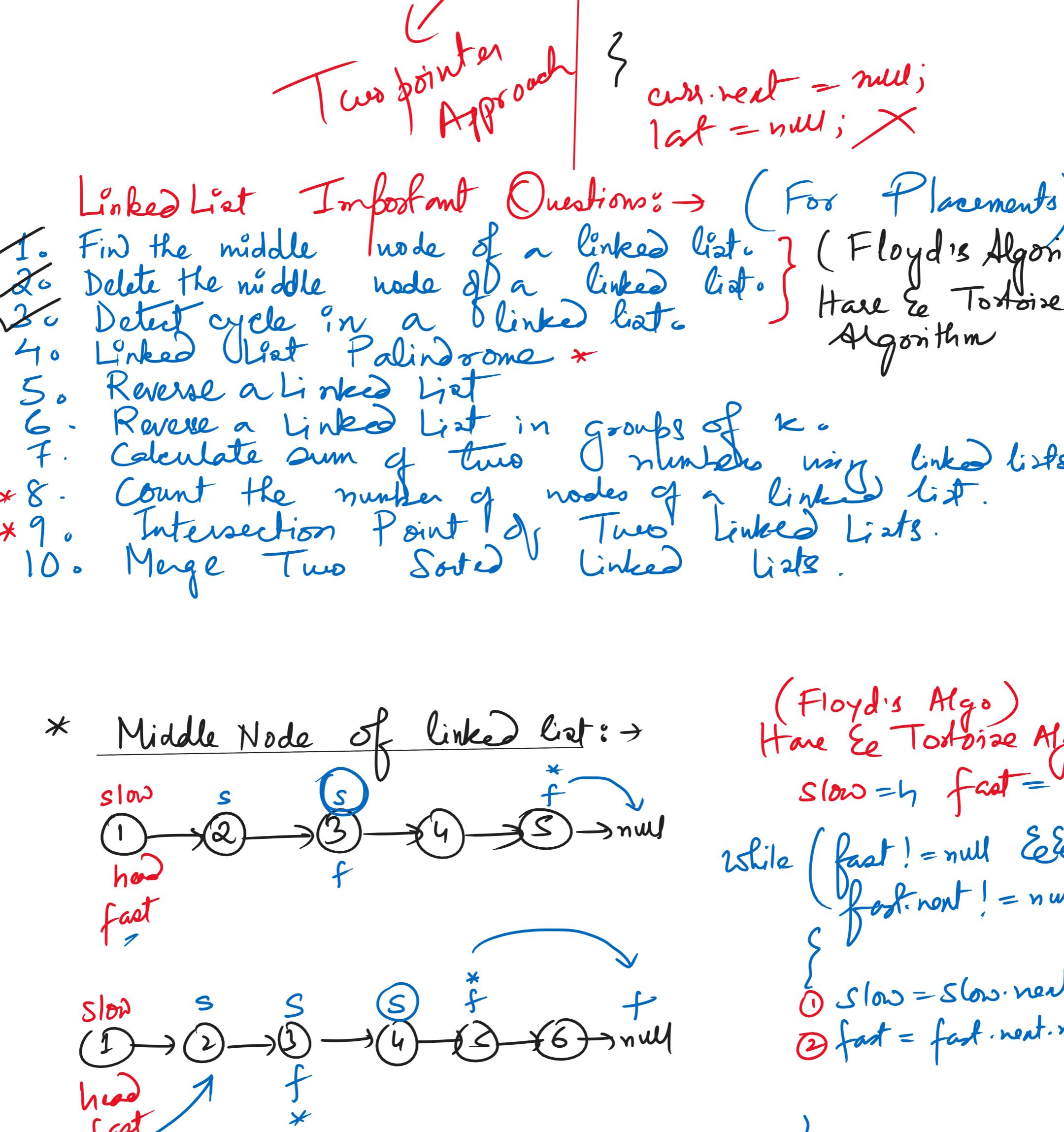
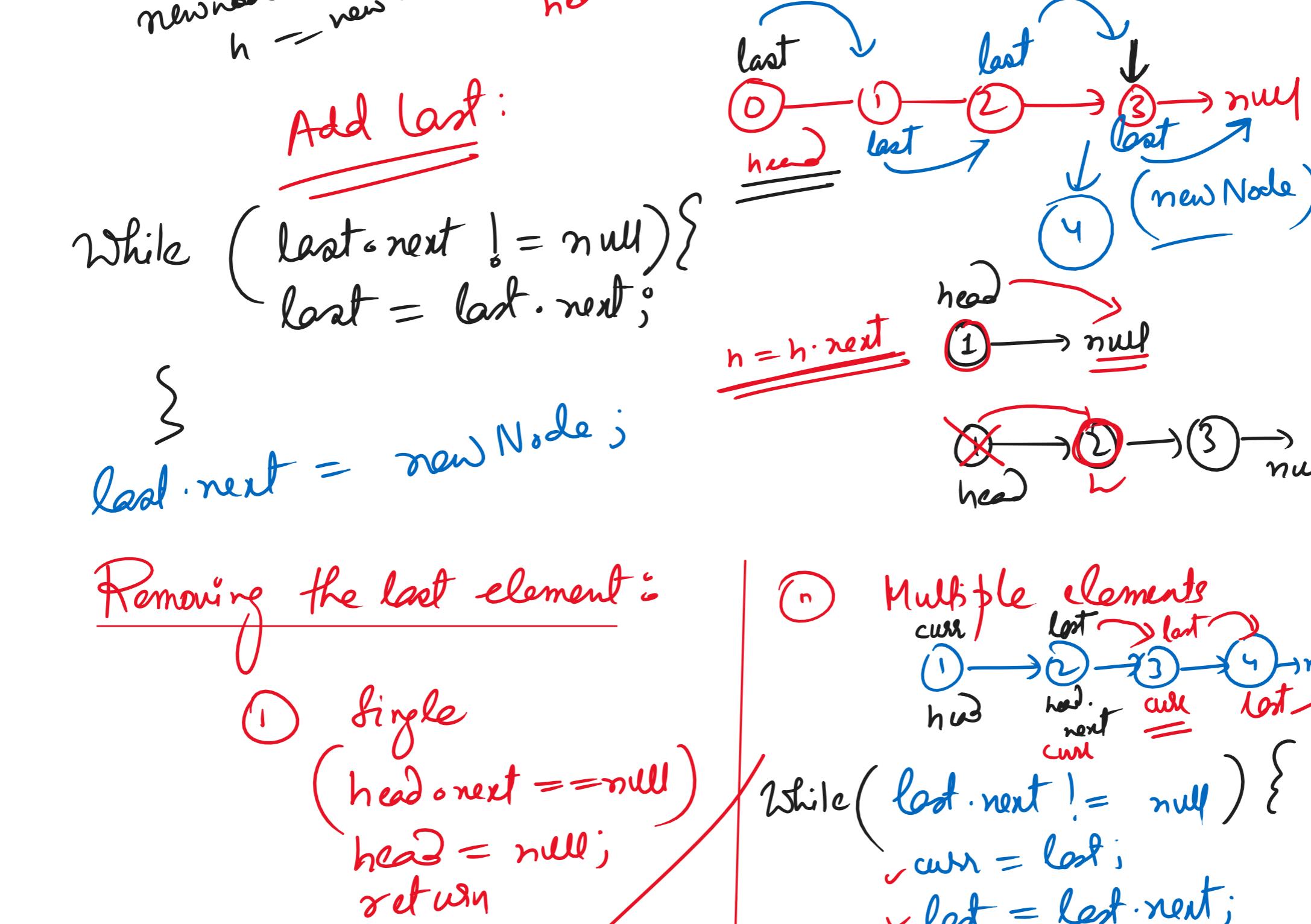
Linked Lists :> A linear data structure containing entities called nodes. The nodes are connected to each other by next pointers. Depending on the types of connections, linked lists are divided into three types:

- (1) Singly
- (2) Doubly
- (3) Circular

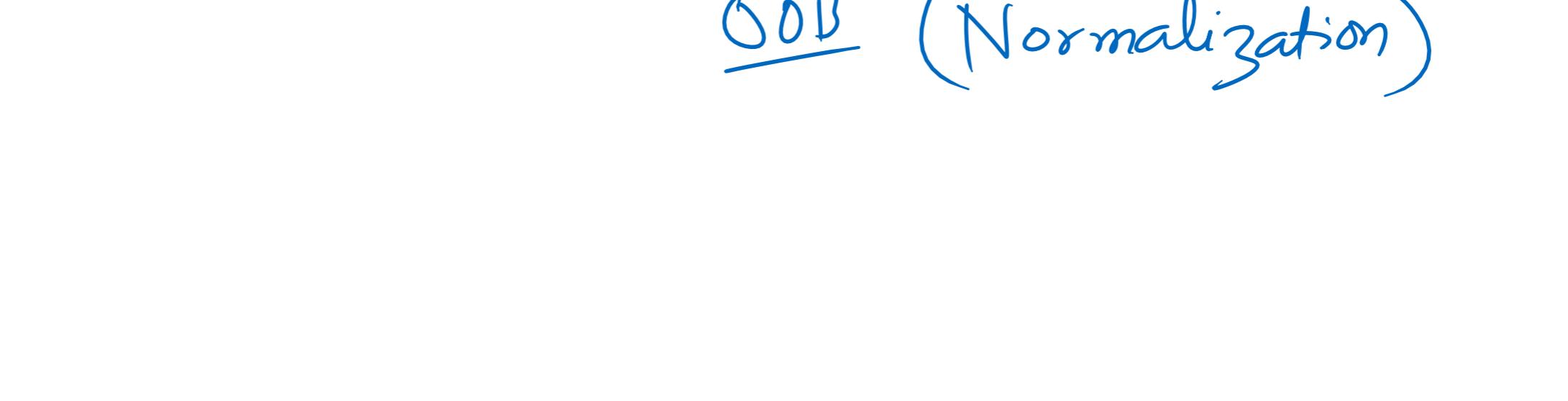
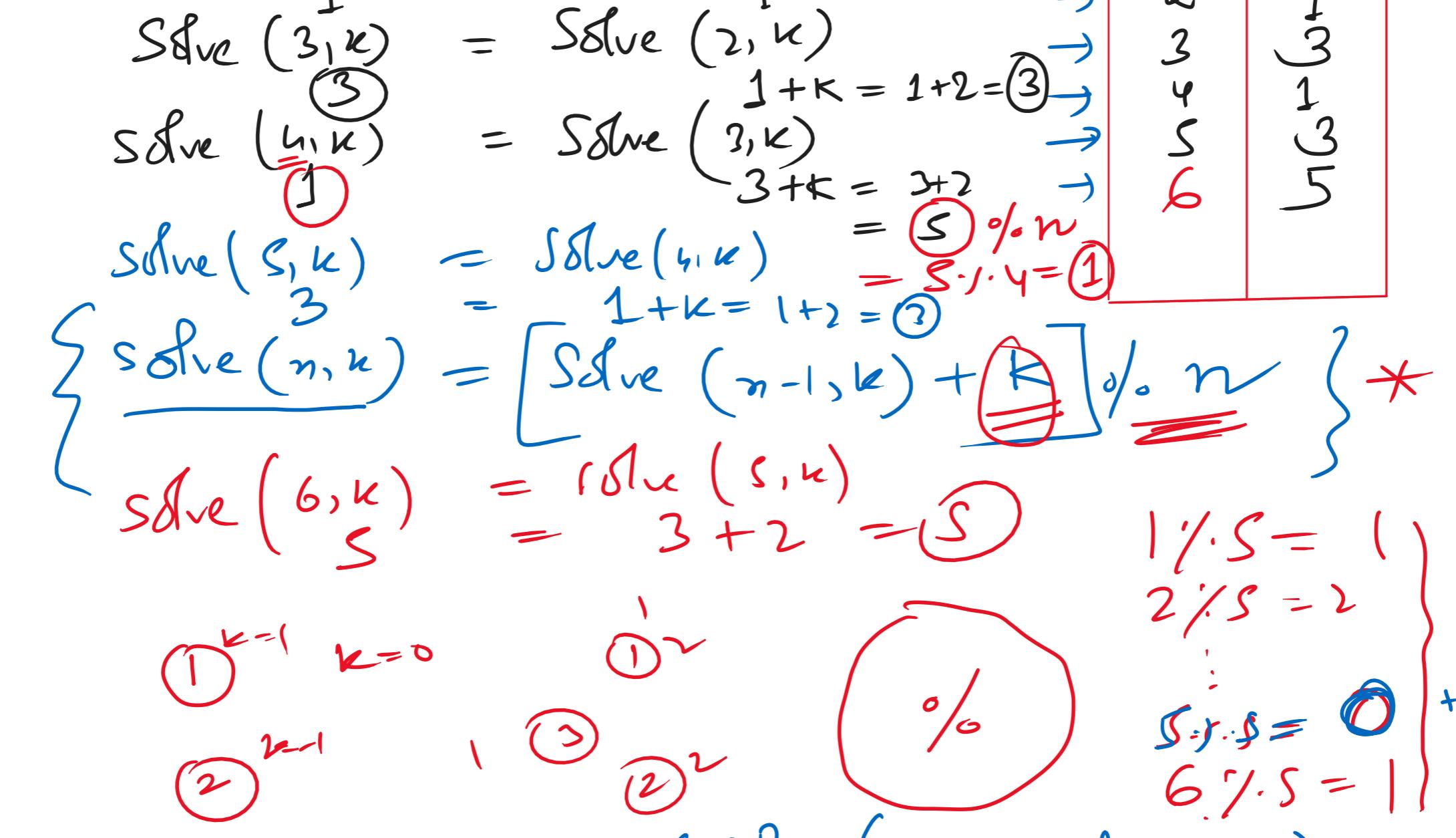
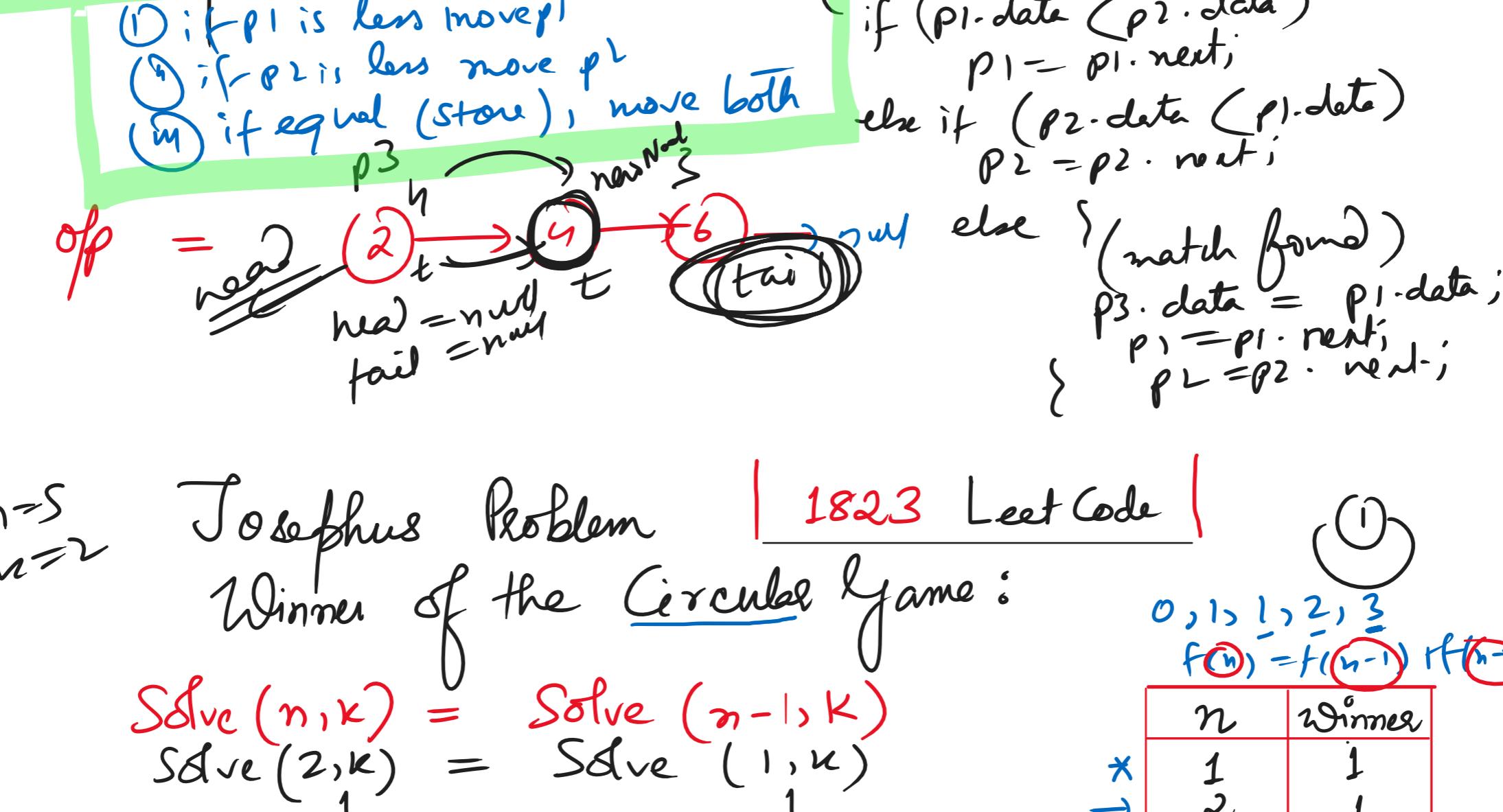
Singly Doubly Circular

- (1) Insert : head / tail / Specific
- (2) Delete : head / tail / target

CLL tail.next = head;



- Linked List Important Questions :> (For Placements)
- 1. Find the middle node of a linked list. } (Floyd's Algorithm)
 - 2. Delete the middle node of a linked list. } (Hare Ee Tortoise Algorithm)
 - 3. Detect cycle in a linked list. } (Tortoise Algorithm)
 - 4. Linked List Palindrome *
 - 5. Reverse a linked list
 - 6. Reverse a linked list in groups of k.
 - 7. Calculate sum of two numbers using linked lists.
 - 8. Count the number of nodes of a linked list.
 - 9. Intersection Point of Two linked Lists.
 - 10. Merge Two Sorted linked lists.



1/5 = 1
2/5 = 2
3/5 = 3
4/5 = 4
5/5 = 5