DSA through C++

Circular linked list

Saurabh Shukla (MySirG)

Agenda

1. Not utilizing next pointer of last node in SLL
2. Circular linked list
3. Comparison of CLL with SLL
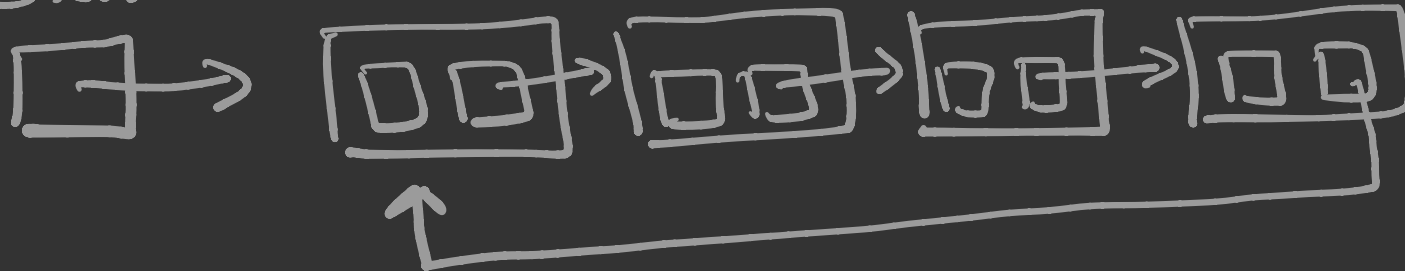4. Small change big difference
5. Insertion and Deletion in CLL
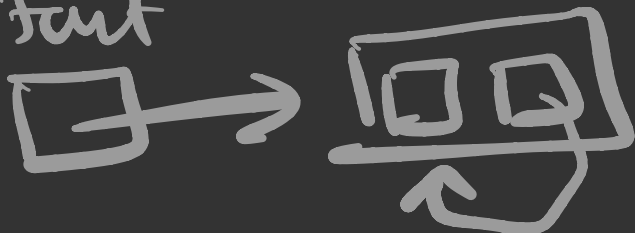
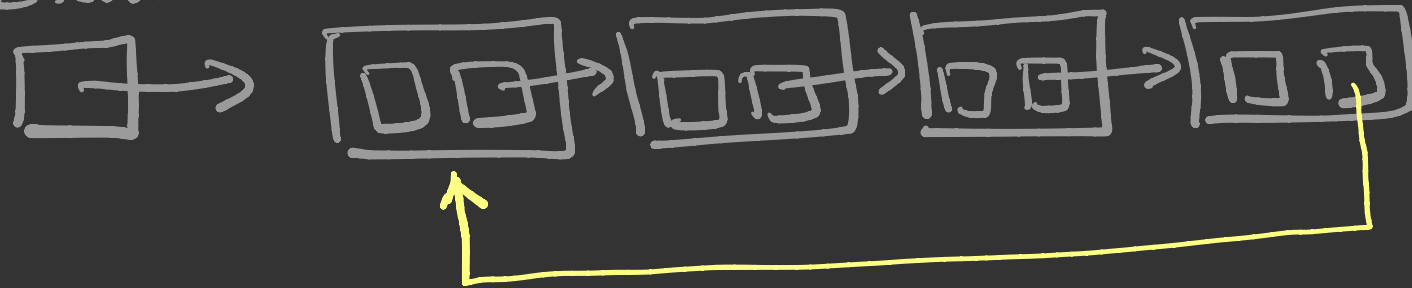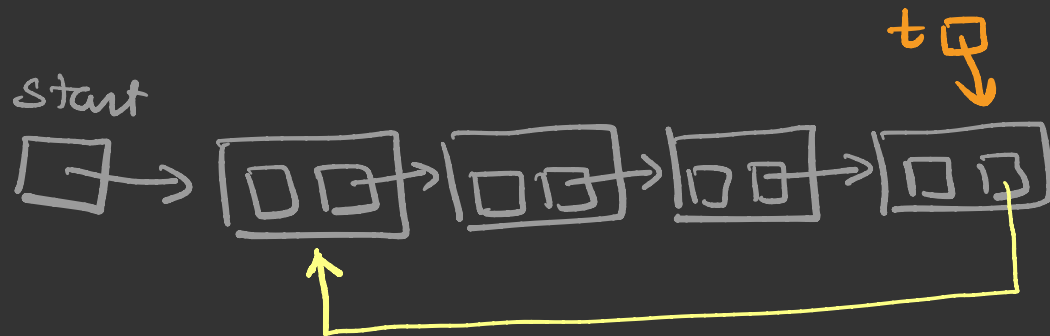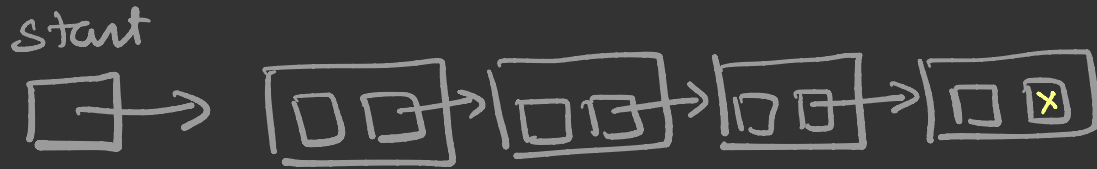# Not utilizing next pointer of last node in SLL

start

Solution

start

if (t → next == start)

t points last node

start

Circular linked list

Comparison of CLL with SLL

start

Insertion
1. First   No Traversing
2. Last   Traversing
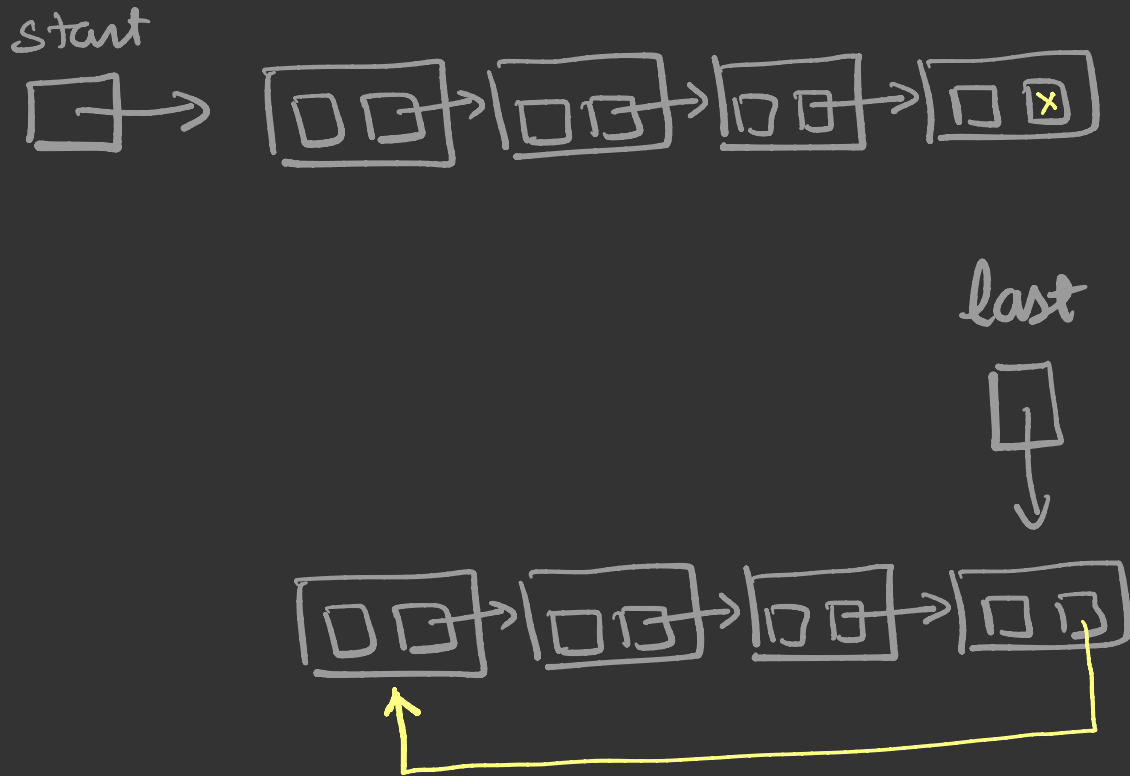
Deletion
1. First   No Traversing
2. Last   Traversing

start

Insertion
1. First   Traversing
2. Last   Traversing

Deletion
1. First   Traversing
2. Last   Traversing

Small Change, Big Difference

start

last

$$n \rightarrow next = last \rightarrow next$$
$$last \rightarrow next = n$$

Insertion
① First No Traversing
② Last Traversing

Deletion
① First No Traversing
② Last Traversing

Insertion
① First No Traversing
② Last No Traversing

Deletion No Traversing
① First
② Last Traversing