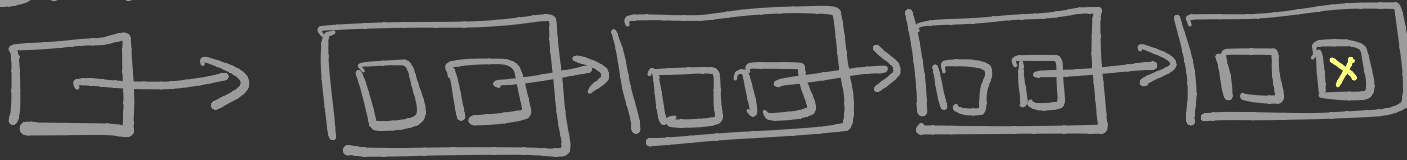# DSA through C++

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
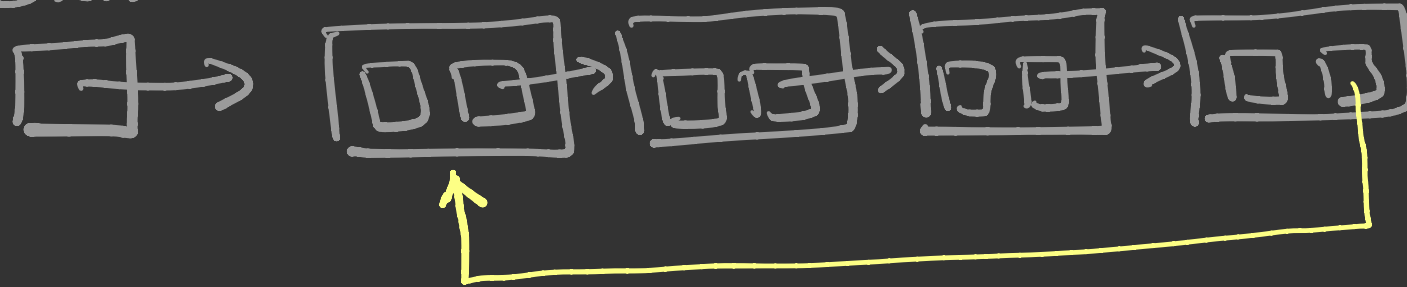5. Insertion and Deletion in CLL

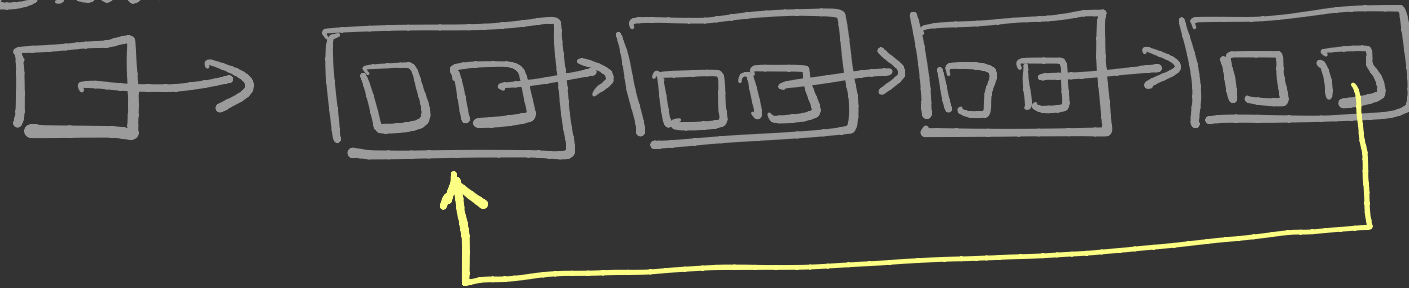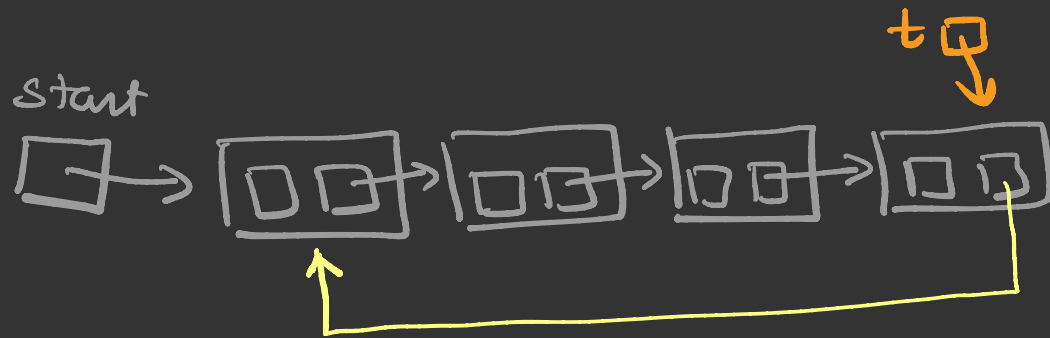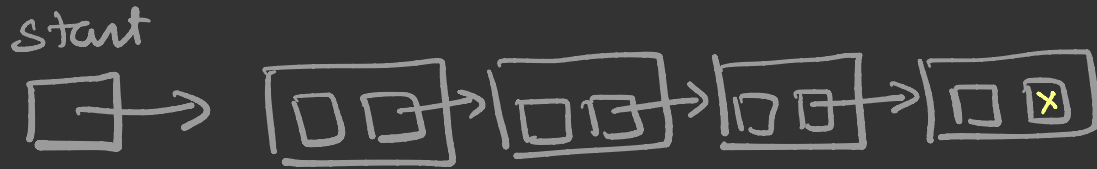# Not utilizing next pointer of last node in SLL

start

Solution

start

t

if (t->next == start)

t is pointing
to last node

Circular linked list

start

Comparison of CLL with SLL

start

Insertion
① First No Traversing
② Last Traversing

Deletion
① First No Traversing
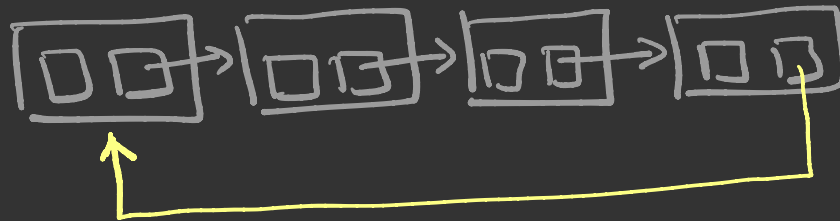② Last Traversing

start

$n \rightarrow next = start$;
$start = n$;
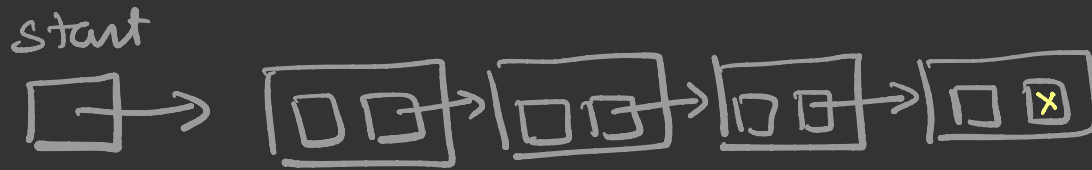
Insertion
① First Traversing
② Last Traversing

Deletion
① First Traversing
② Last Traversing

Small Change, Big Difference

last

Insertion
① First no traversing
② Last Traversing

Deletion
① First no traversing
② Last Traversing

$n \to next = last \to next;$

$last \to next = n;$

$last = n;$

Insertion
① First no traversing
② Last no traversing

Deletion
① First no traversing
② Last Traversing

Insertion in CLL

Deletion in CLL