

DSA through C++

Assignment-7,8

Doubt Class



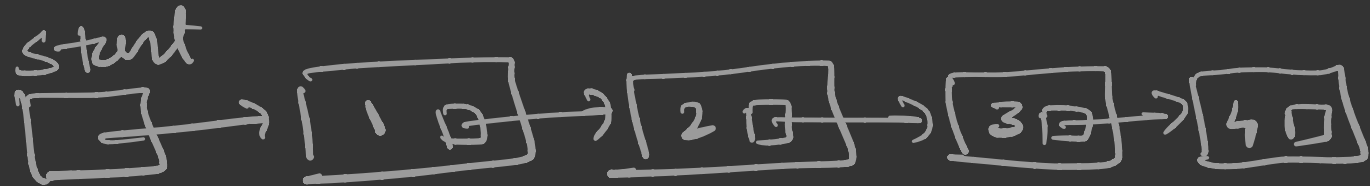
Saurabh Shukla (MySirG)

Ass. 7

Q. 1

Simple traversing is required

Q. 2



loop

$t_2 \rightarrow \text{next} = t_1;$

$\text{start} = t_2;$

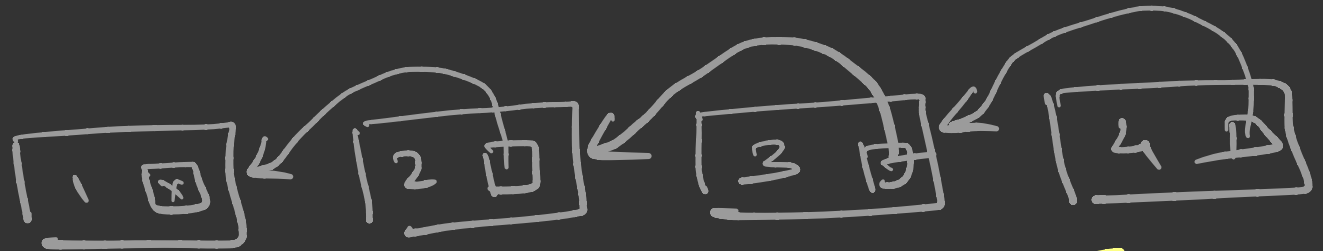
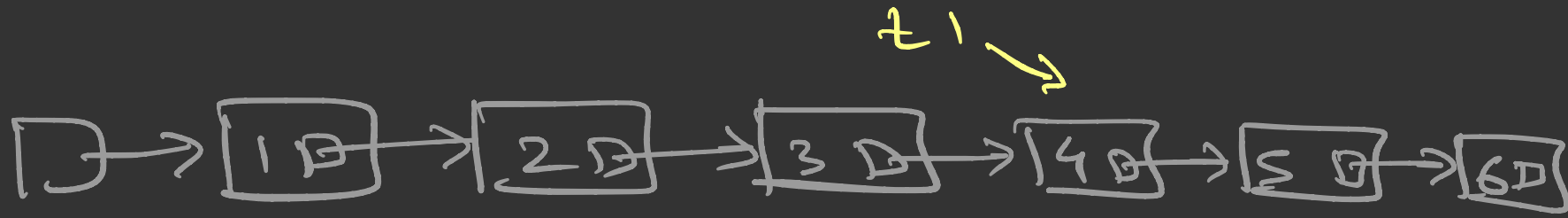


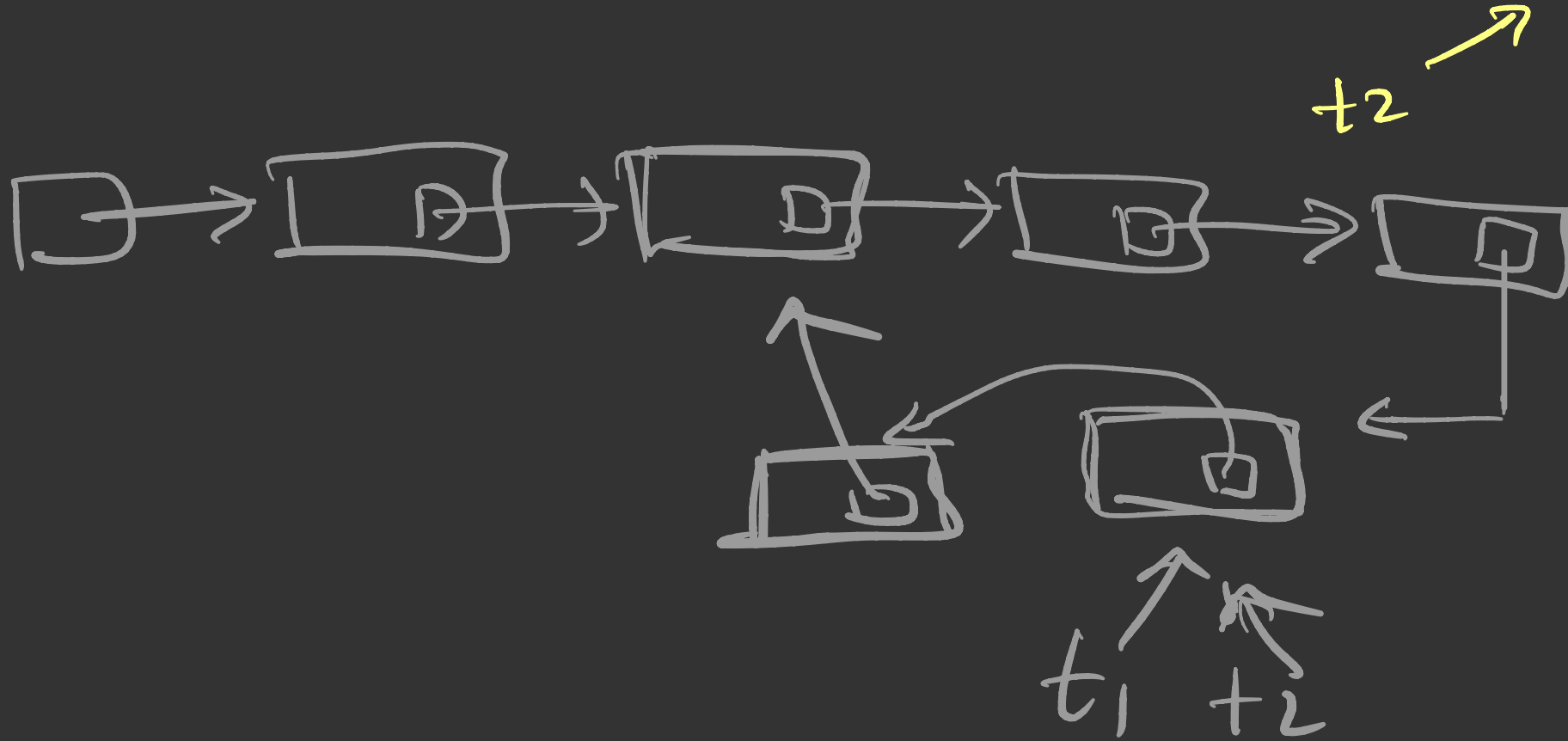
Diagram illustrating the traversal pointers for the looped list:

t_1 points to node 2, t_2 points to node 3, and t_3 points to node 4.

Q. 3



Q. 4



Q.6

$1 \rightarrow 3 \rightarrow 5 \rightarrow 9$

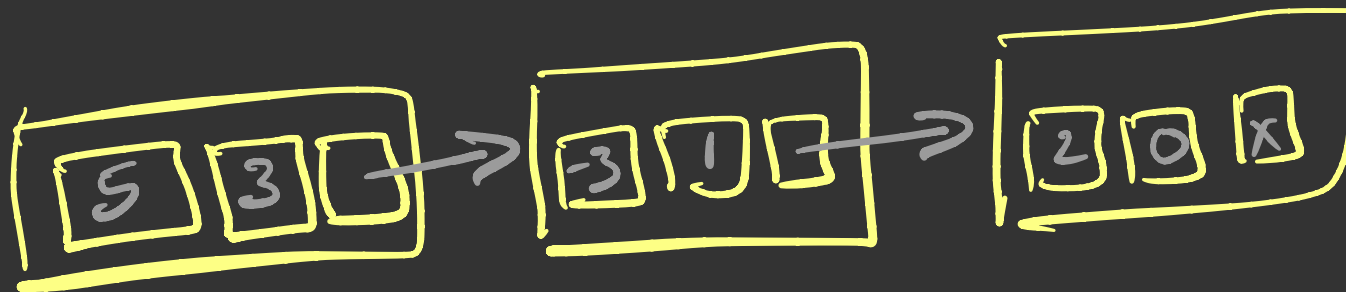
$2 \rightarrow 6 \rightarrow 7 \rightarrow 8$

$1 \rightarrow 2 \rightarrow 3 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8 \rightarrow 9$

Q.7

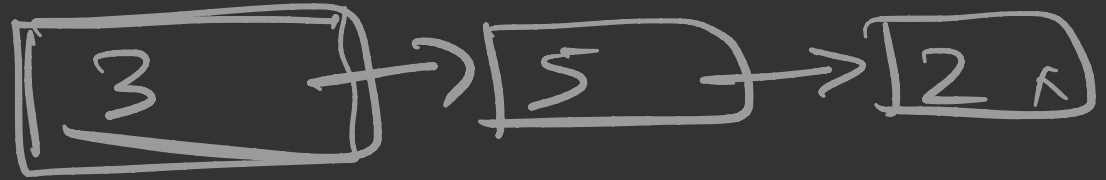
$$5x^3 - 3x + 2$$

$$4x^2 + 5x + 7$$

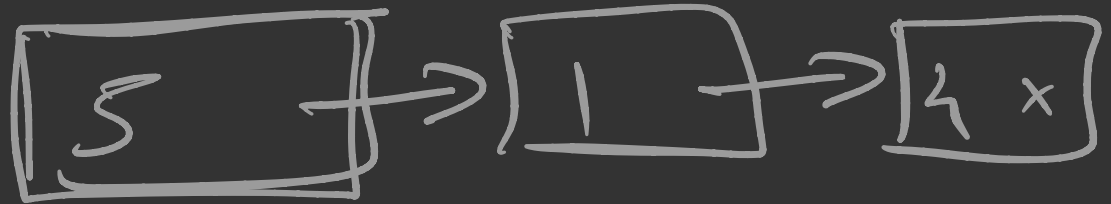


10

253



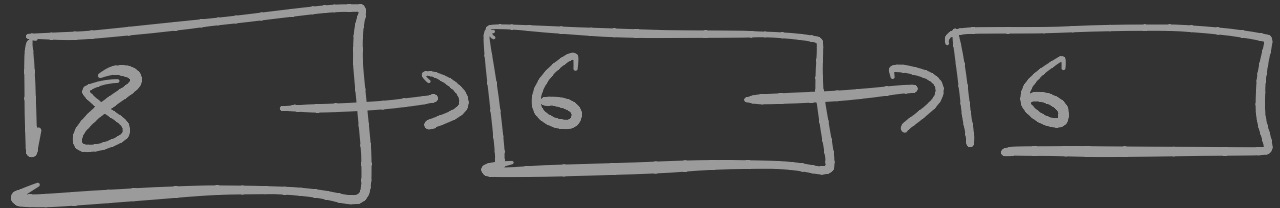
415



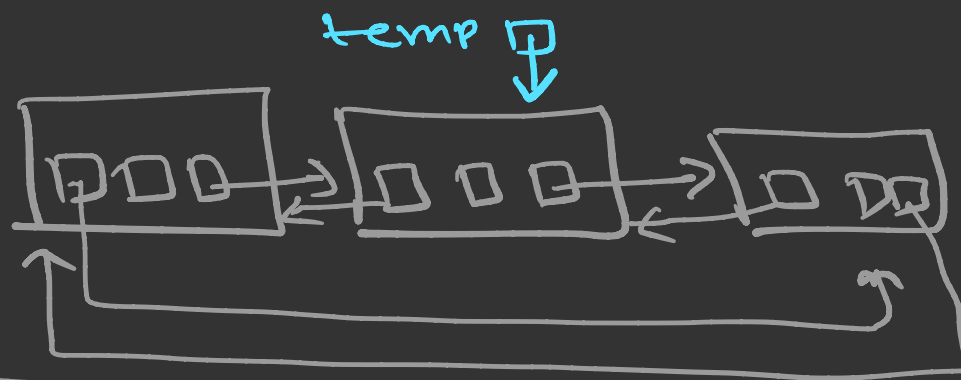
253

415

668

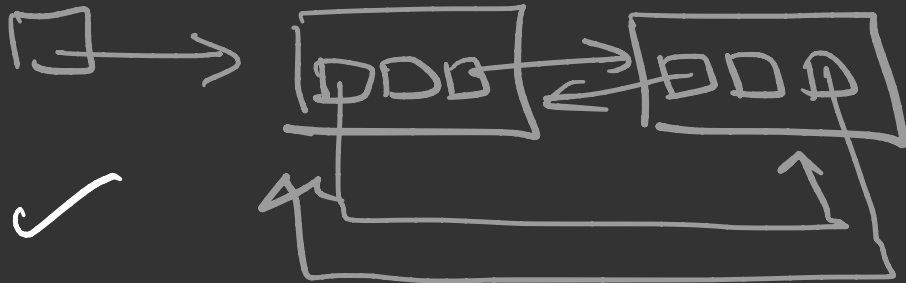


start



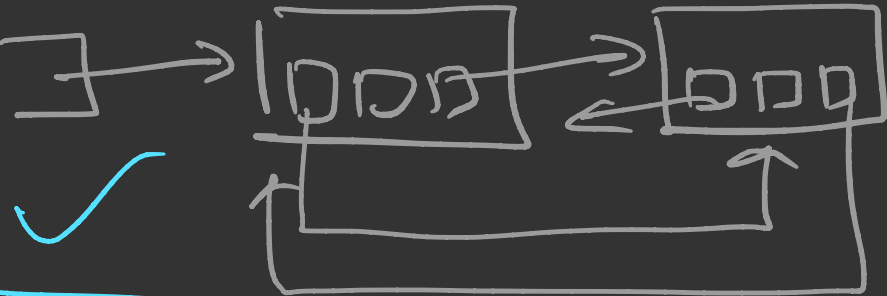
start

temp



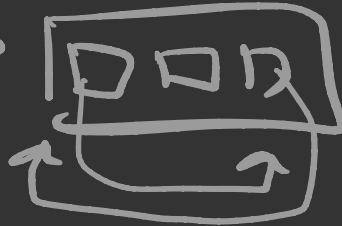
start

temp



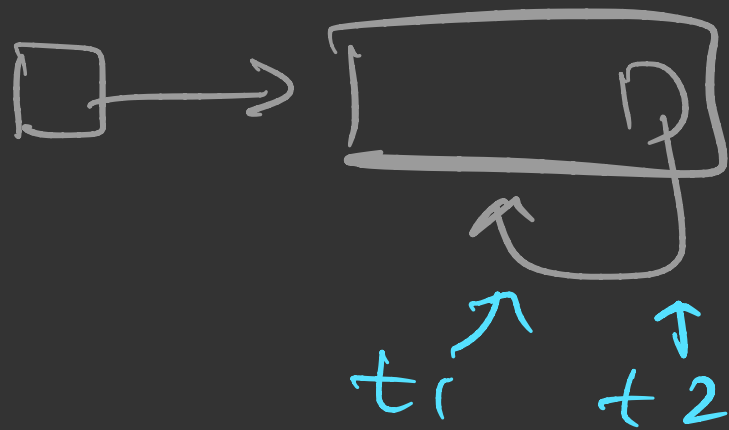
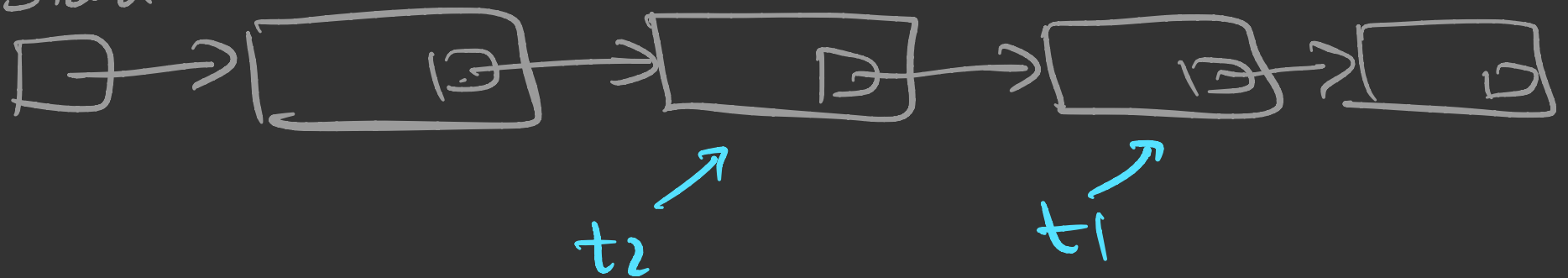
start

temp

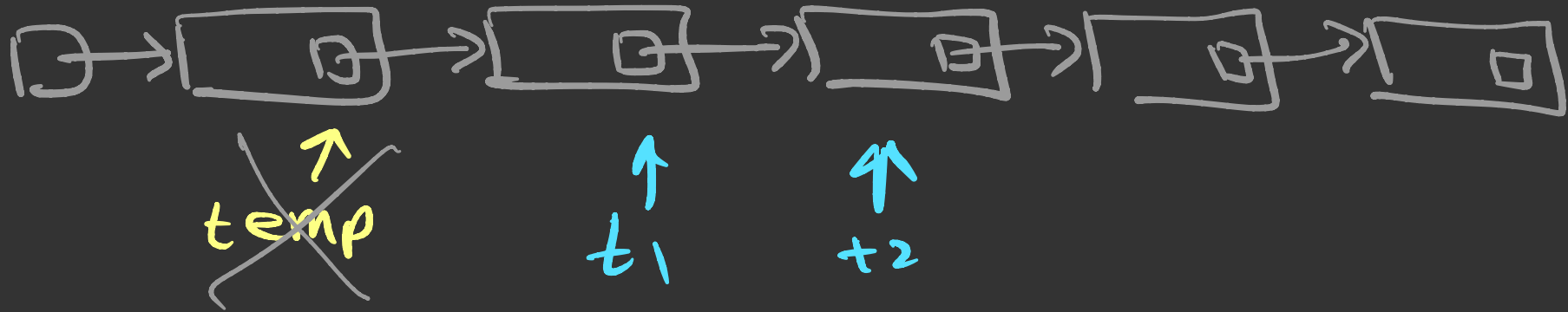


```
temp->prev->next = temp->next;  
temp->next->prev = temp->prev;  
delete temp;
```

Start



Sorting



X if $t1$ is not first node then traverse linked list to obtain address of previous node of $t1$

$x = t1 \rightarrow \text{item};$

$t1 \rightarrow \text{item} = t2 \rightarrow \text{item};$

$t2 \rightarrow \text{item} = x;$

start

