

DSA through C++

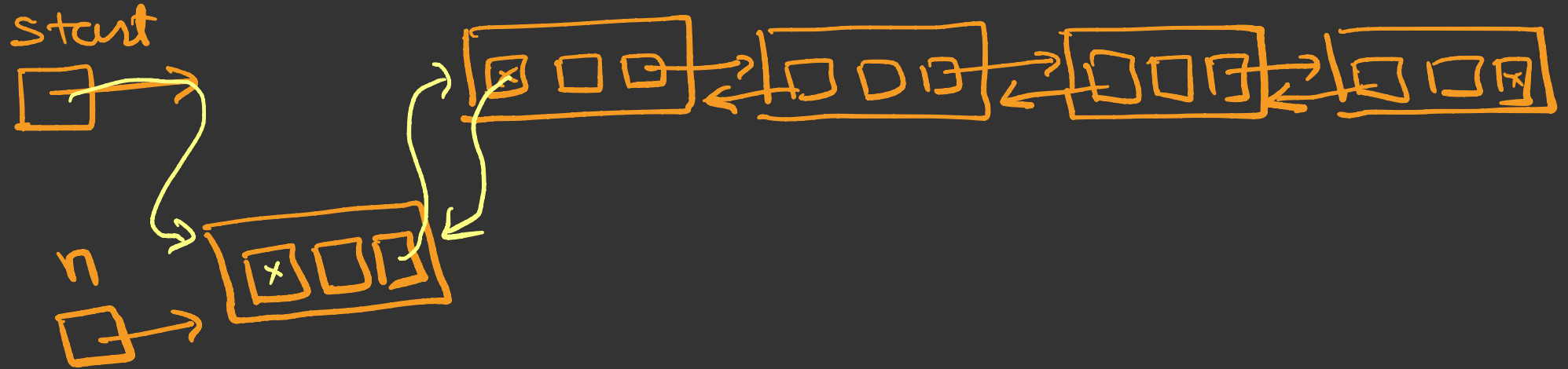
## Assignment-5

Doubt Class



Saurabh Shukla (MySirG)

## Insertion at Start



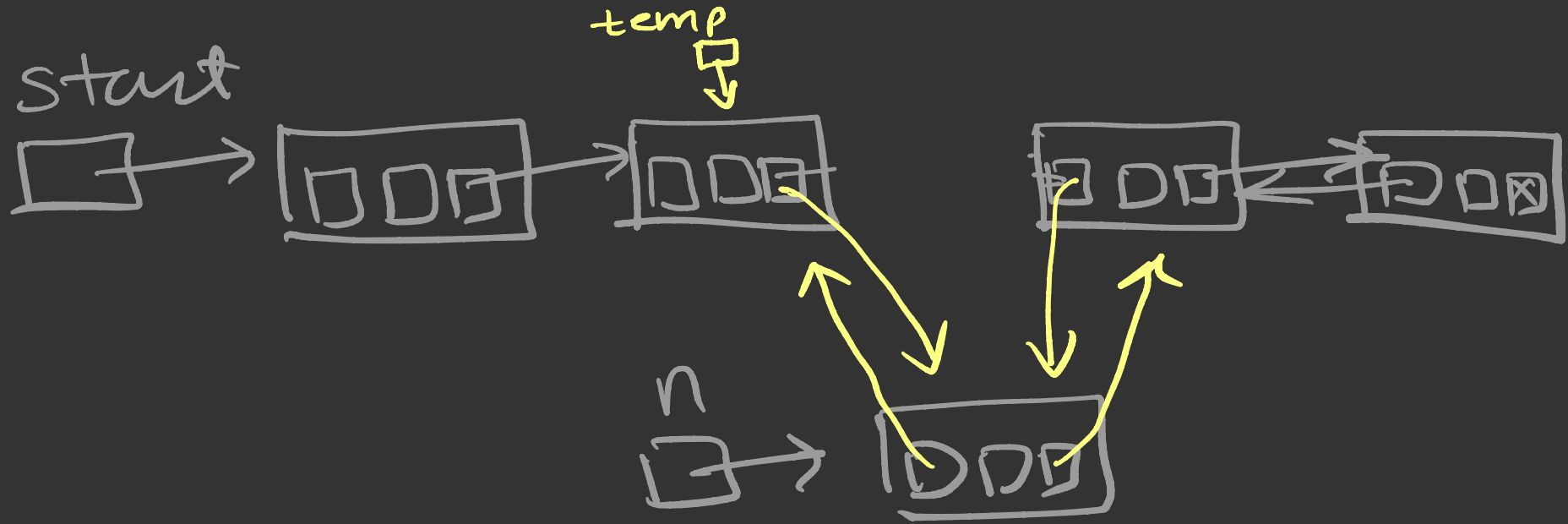
# Insert at the end

Start

$t$

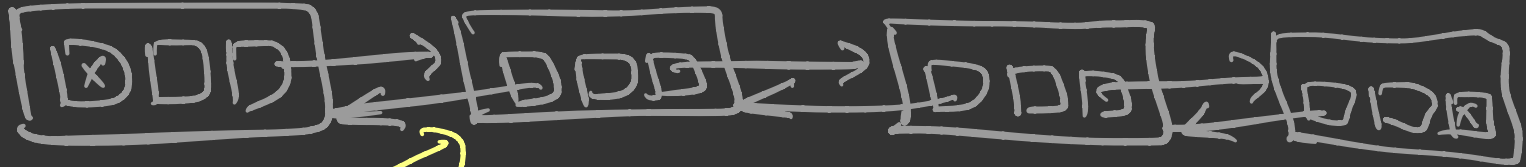
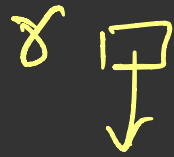


# insert After a node

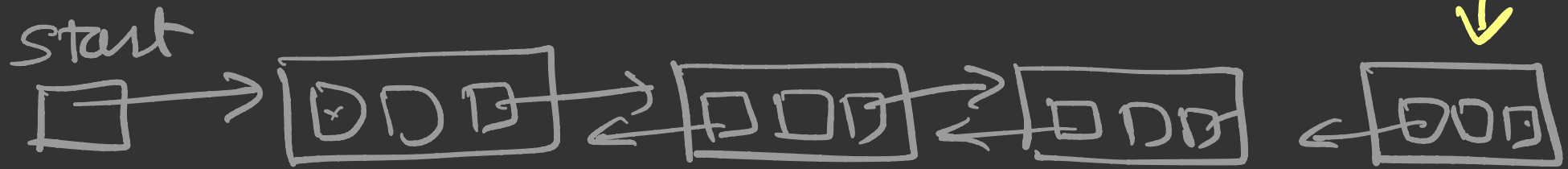


Delete First node

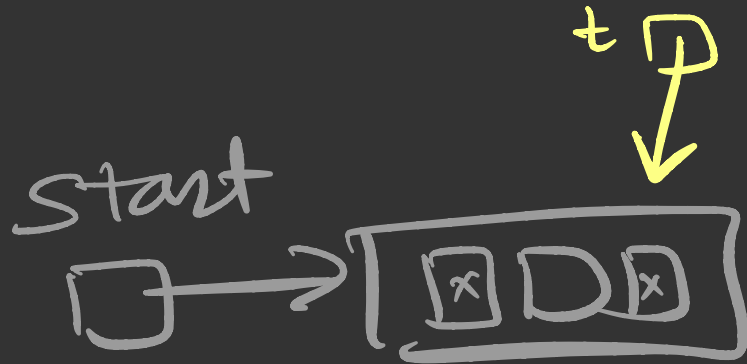
Start



# Delete last node



$t \rightarrow \text{prev} \rightarrow \text{next} = \text{NULL}$

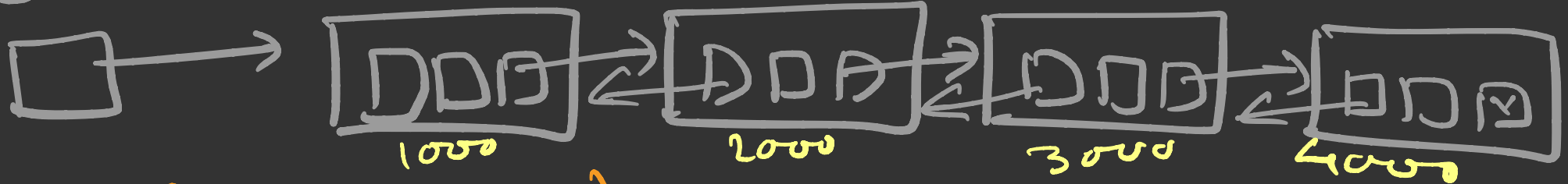


# Delete a specific node

temp  $\rightarrow$  prev  
1000

1000  $\rightarrow$  next

Start



if (temp  $\rightarrow$  prev)

temp  $\rightarrow$  prev  $\rightarrow$  next = temp  $\rightarrow$  next;

else

temp is first node

Start = temp  $\rightarrow$  next;

if (temp  $\rightarrow$  next)

temp  $\rightarrow$  next  $\rightarrow$  prev = temp  $\rightarrow$  prev;

else

temp is last node