

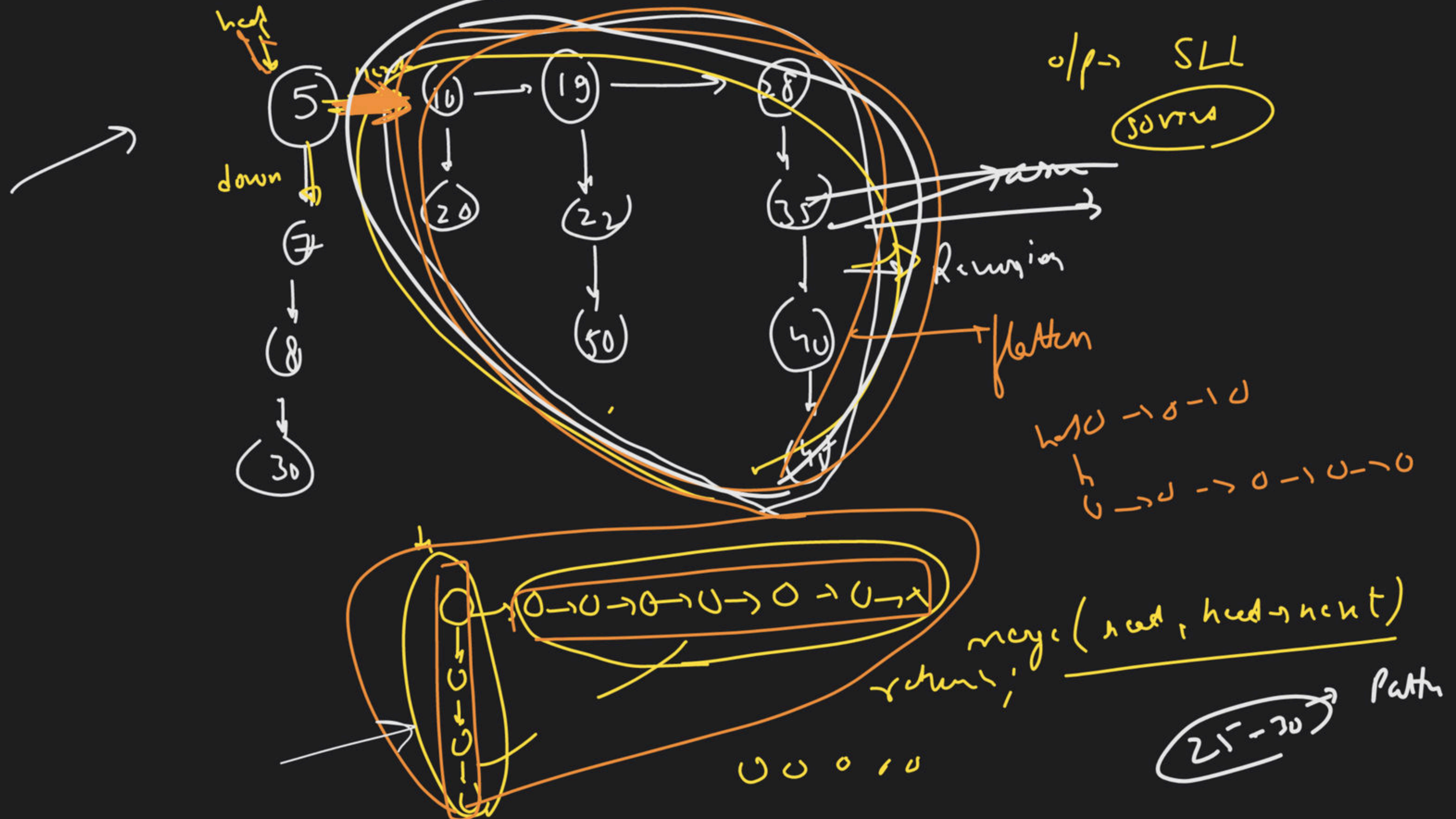


# Doubt Clearing Session - Part XI

Foundation Course on Data Structures & Algorithm - III









Node \*

```

flatten (Node* head)
{
    // Base Case
    if (head == NULL || head->next == NULL)
        return head;
}

```

Annotations:

- Empty list (points to `head == NULL`)
- right part empty (points to `head->next == NULL`)

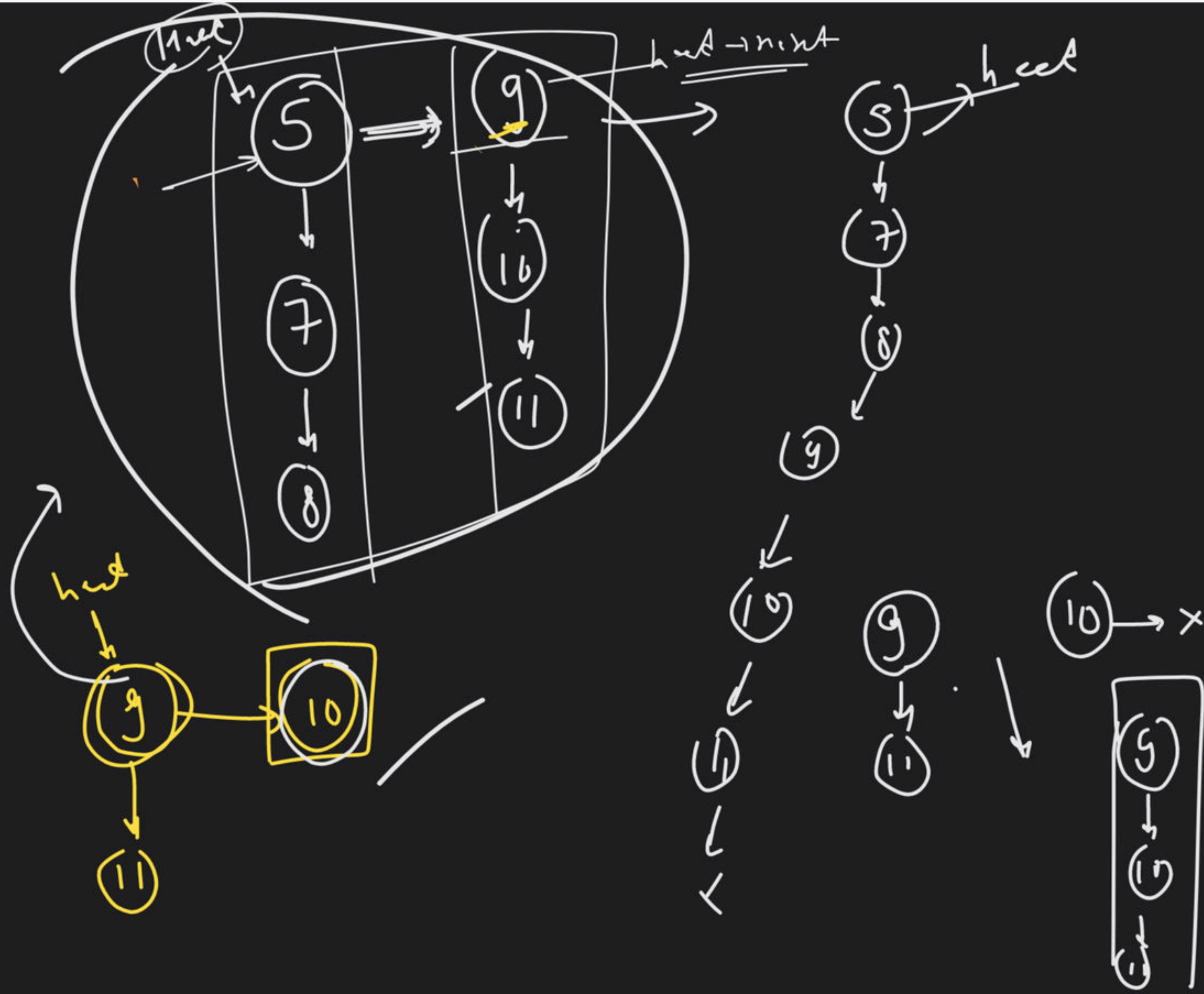
(I) →

// Rec call

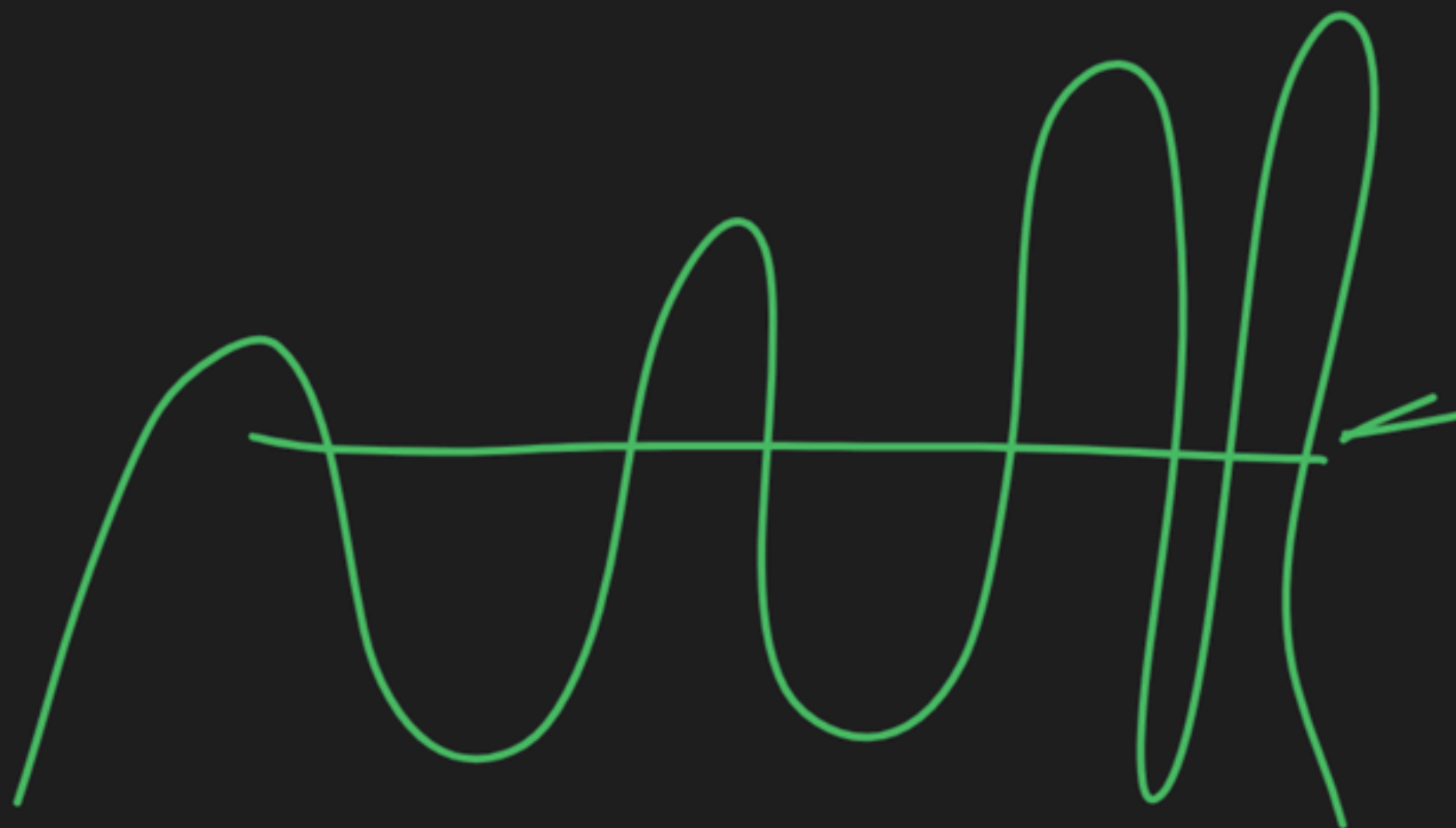
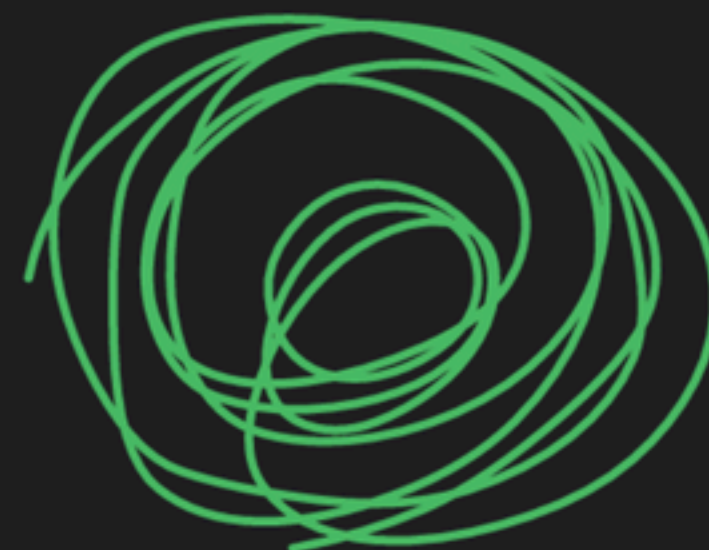
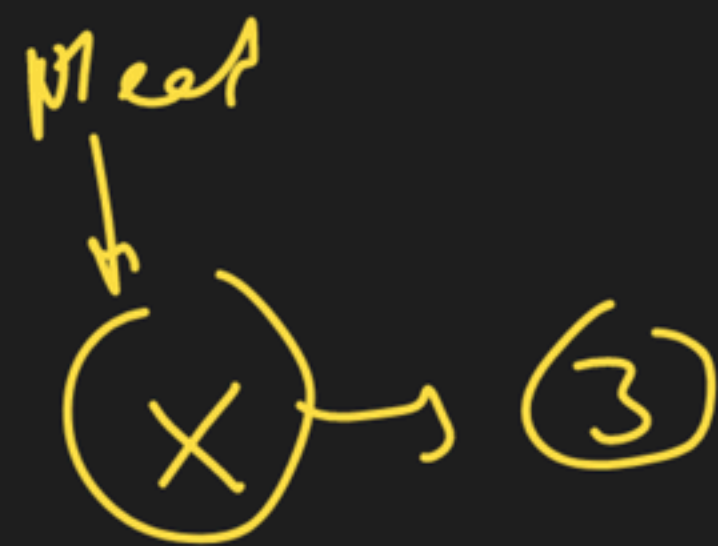
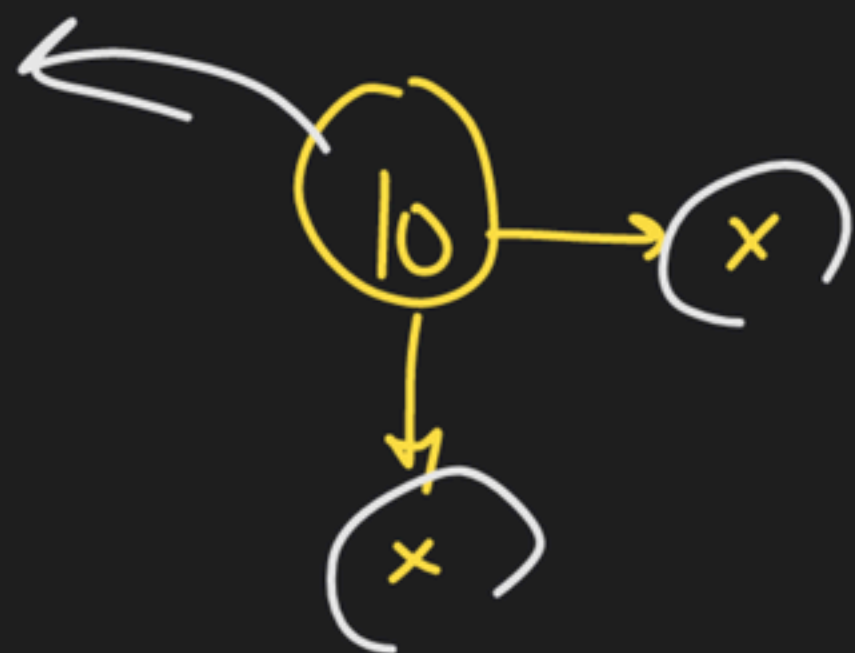
```

head->next = flatten(head->next);
head = merge(head, head->next);
return head;
}

```







Node \* merge (Node \* first, Node \* second)

{

if (first == NULL)  
return second;

if (second == NULL)  
return first;

Node \* ans;

if (first->data < second->data)  
{  
ans = first;

ans->down = merge(first->down, second);  
}

else

{ ans = second;

ans → down = merge(first, second → down);

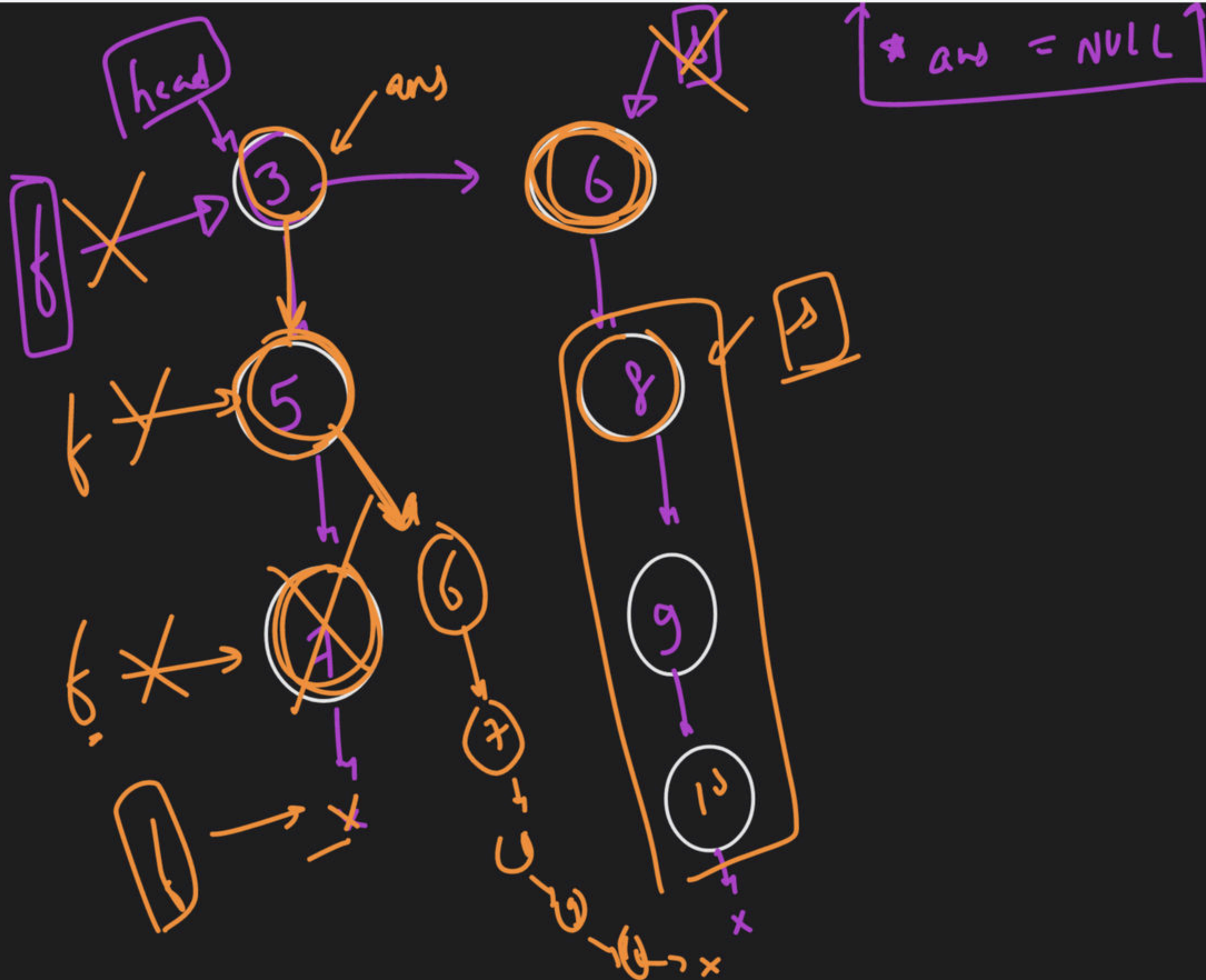
ans → next := NULL;

return ans;

}



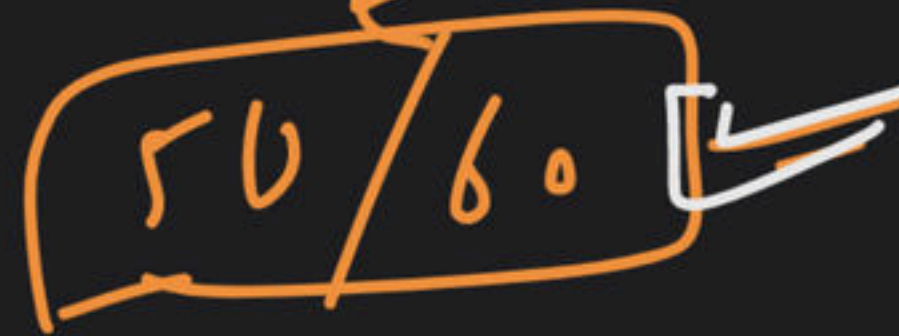






→ G+G / Lect Code

→ Codenation Recent Interview  
Exp



is  
e>c

28-30

5-7  
5

clone  $\Rightarrow$  Validation

1.2 SL ~~with~~  
easy

Mindset

Amun  
ms  
Joke

DIA  
SCN  
YR  
BCL  
3yr  
Project Diagram

Skill++

→ 2 project

→ DSA

→ subject

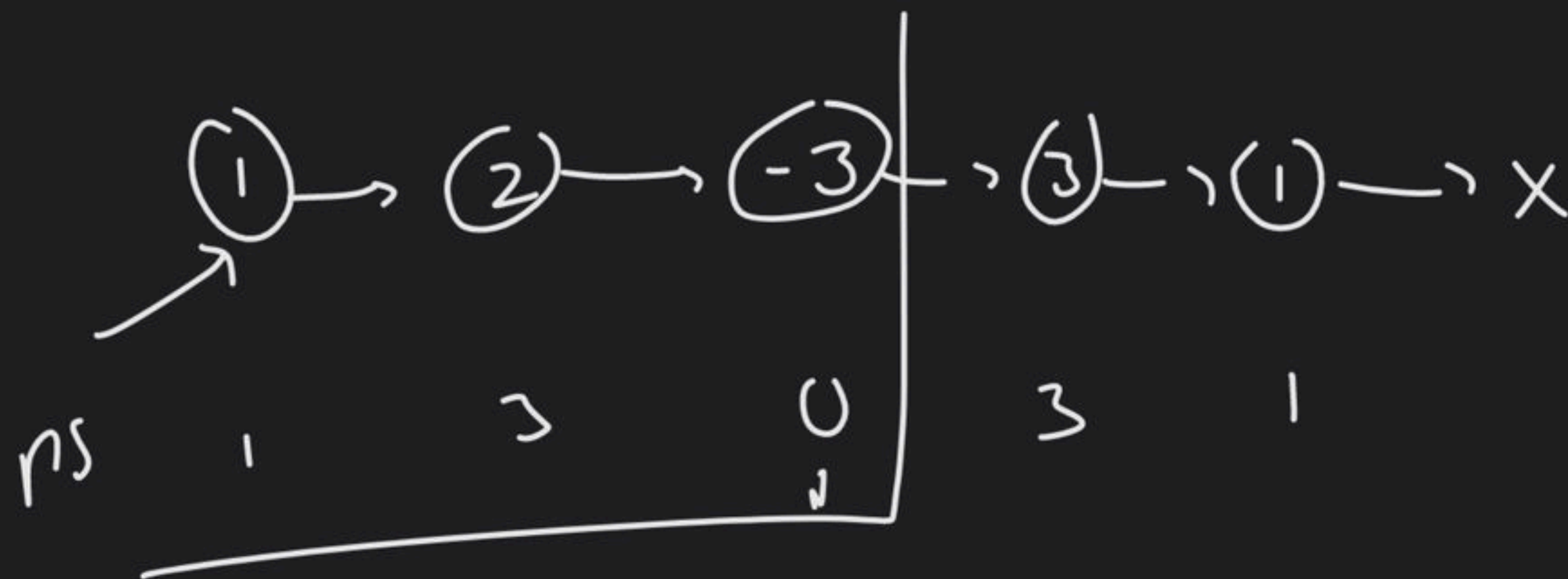
OS  
DSM  
OOPS  
(N)

→ low level  
design



Doubt:-

Recording  
↓



(3) → (1) → X

$O(n^2)$

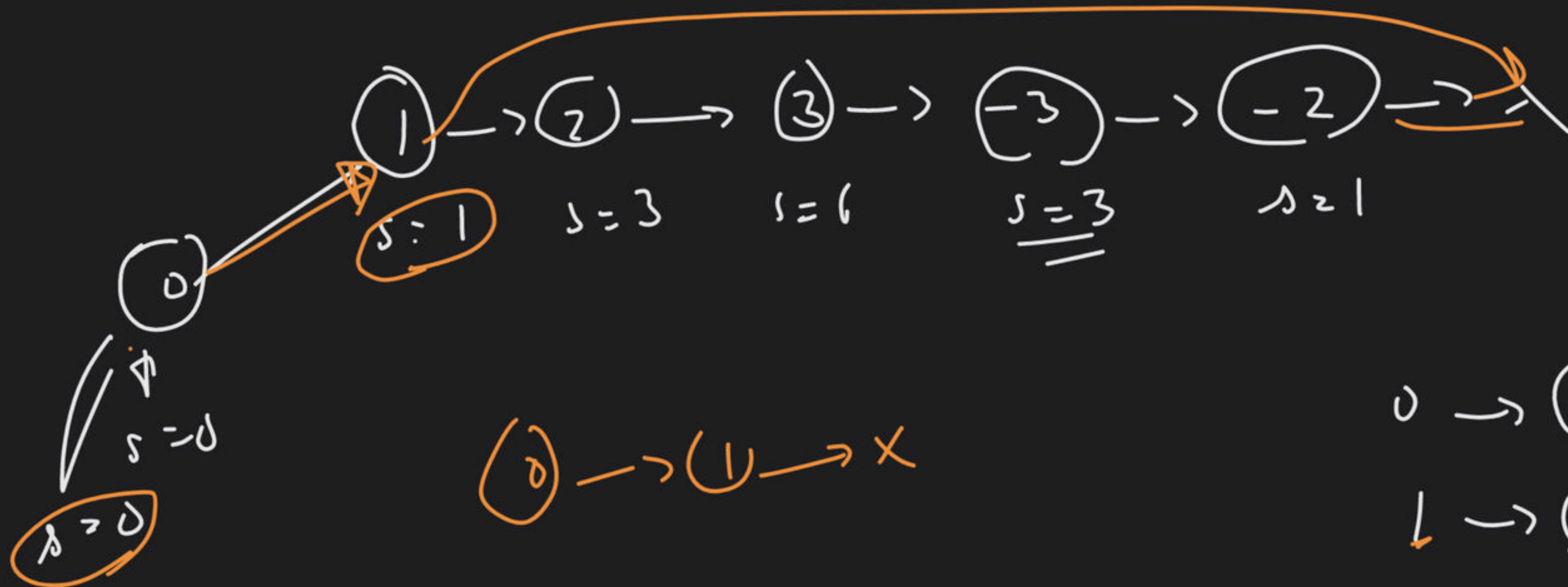


0  $\rightarrow$  ~~0~~ -3  
 1  $\rightarrow$  1  
 3  $\rightarrow$  ~~2~~ 3  
 4  $\rightarrow$  1

$$O(n)$$

why this works?





$0 \rightarrow 1 \rightarrow x$

$0 \rightarrow 0$   
 $1 \rightarrow -2$   
 $3 \rightarrow -3$   
 $6 \rightarrow 3$

Kon tha  
vo qadmi?

Piyush



→ Noob Interviewer

→ Comm<sup>n</sup>

(1<sup>st</sup>)

SD & ②

Normal DSA

Low level  
Design

Schem

System Design

High level  
Design

→ System Design

Exp

→ Chance

Optimal → Best Code

Comm

VS

Right

Long

Discuss

DynamoDB → optimal

Require



Nagarr 0

Qum ->

LL -> D/D -> loop



12-13

14-4 LPA

6 LPA

Backup

1:30 am

2:30 am

10 LPA

Nagarr



OOPS

↳ inheritance

↳ poly

Udit

← Sultanik Infantry line →  
+ ES-36 -> Bhup





































1