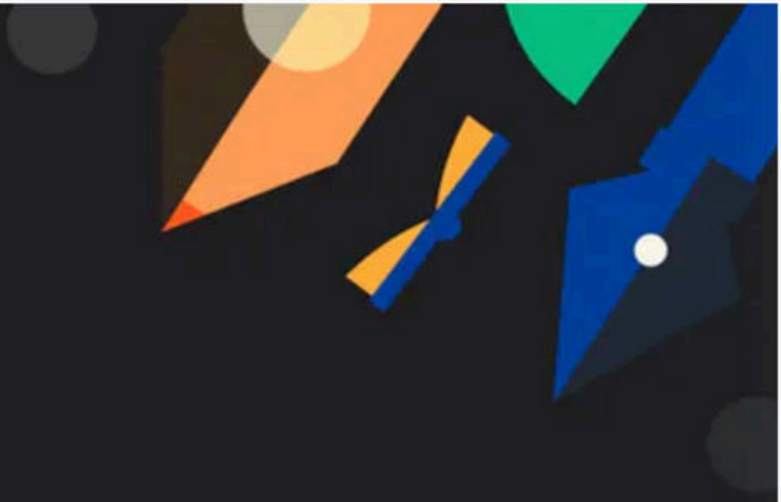


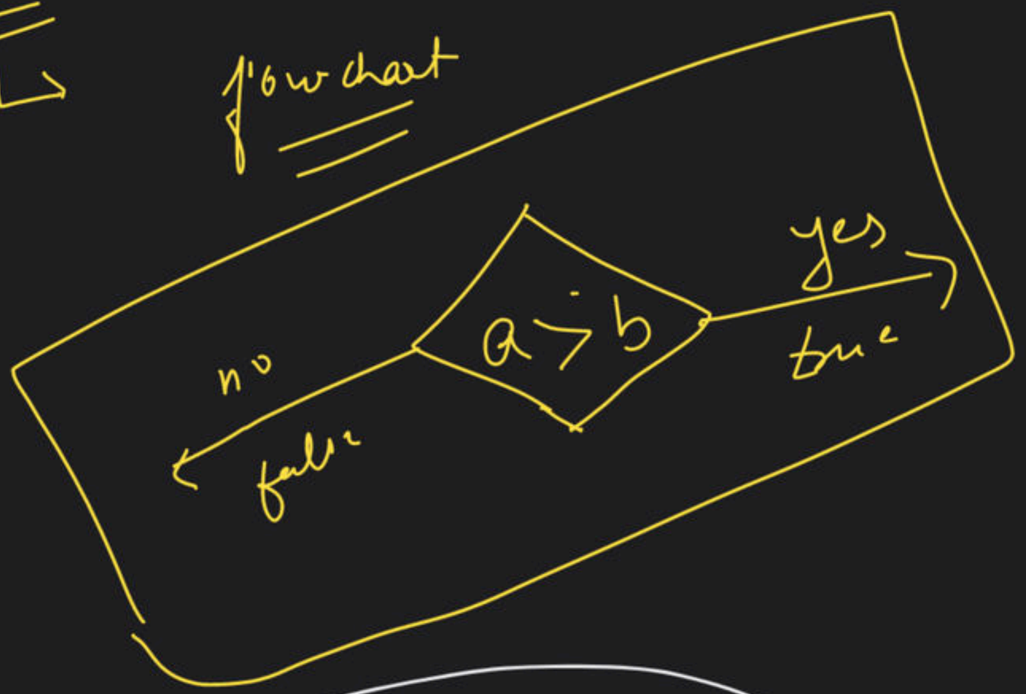
Programming Basics - II

Foundation Course on Data Structures & Algorithm - Part I

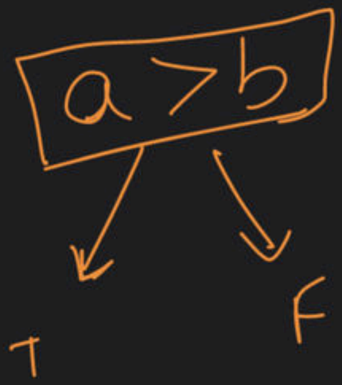
Love Babbar • Lesson 3 • Apr 16, 2022

→ Conditionals :-

↳ flowchart



→ if statement



⇒

```
if ( cond ) {
    ...
}
```

→ print / display ⇒ cout << a ;

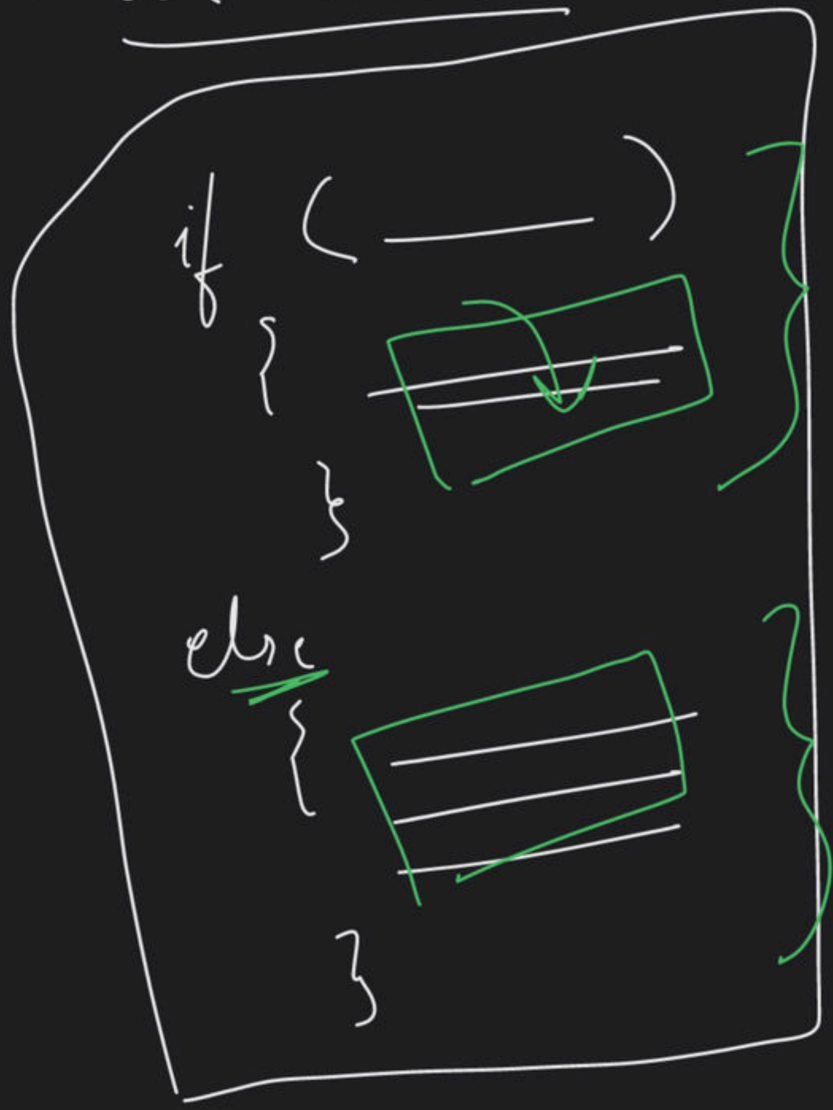
→ input → cin → cin >> a ;

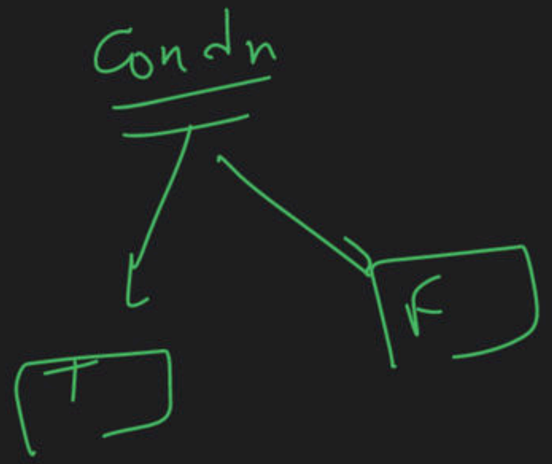
Ex → int num ;

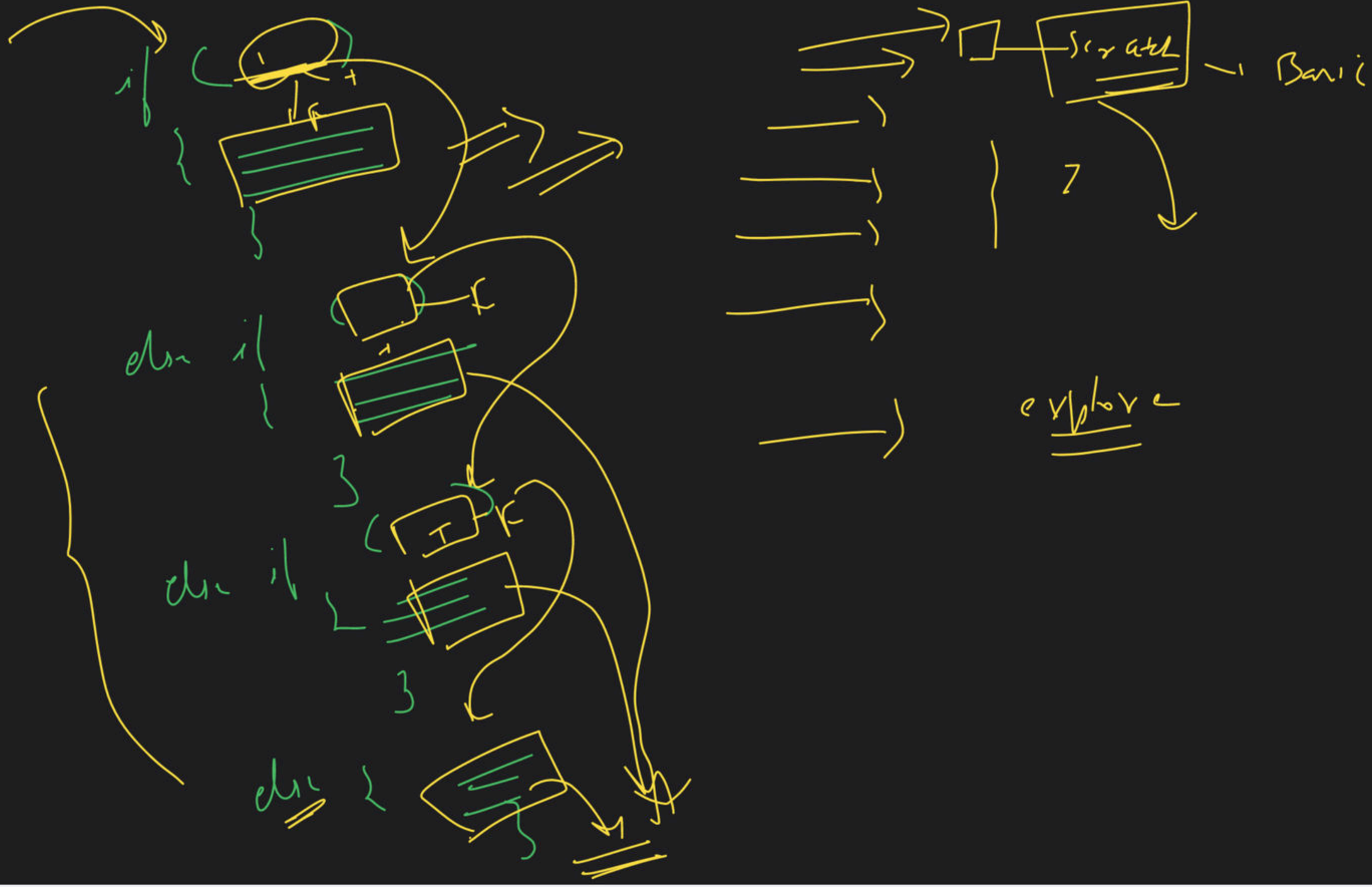
cout << " enter value " ;

cin >> num ; → user will put an entry

→ if - else statement






if
else if
else if
else
Scratch
Basic
explore

Switch :- int char

num

switch ( )

{

case 0:

break;

case 1 :

break;

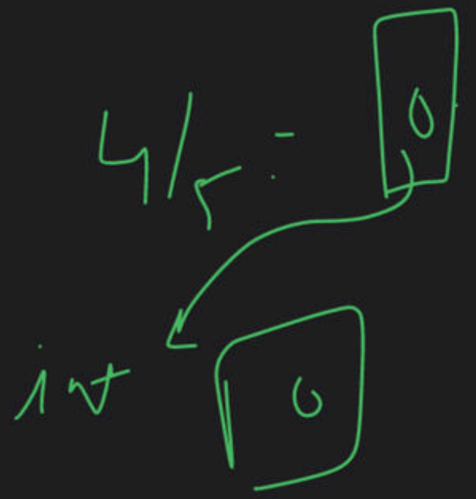
default:

}

expression → o/p → execute

case match

Break



→ if

switch

which is good over other -? why?

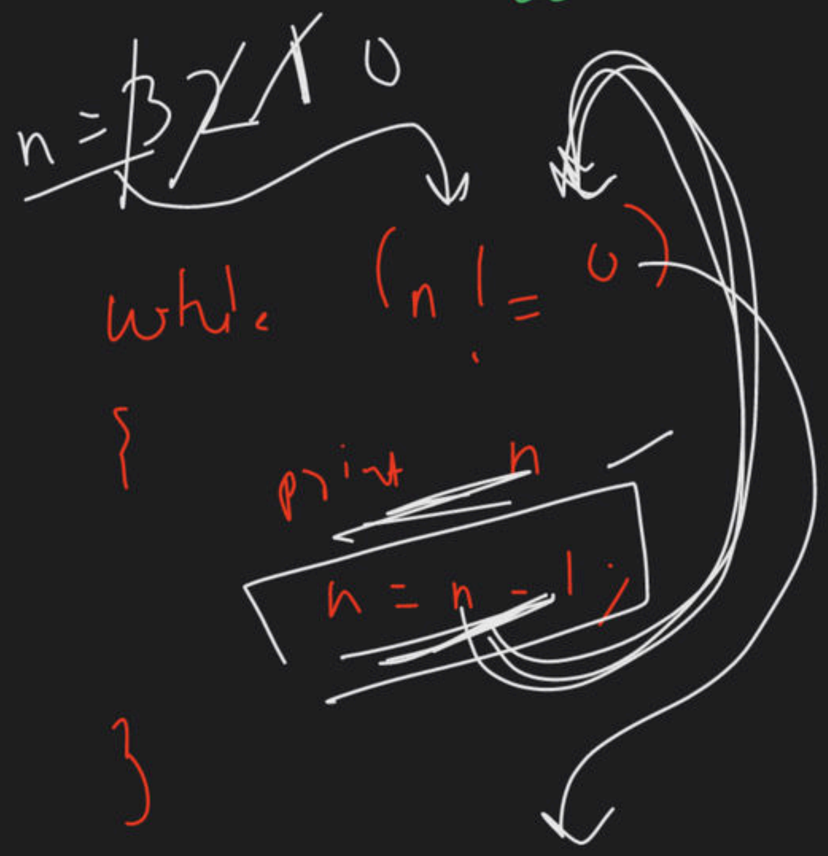
H/W

↳ stack Overflow

→ Loops :- for loop

while

do - while loop



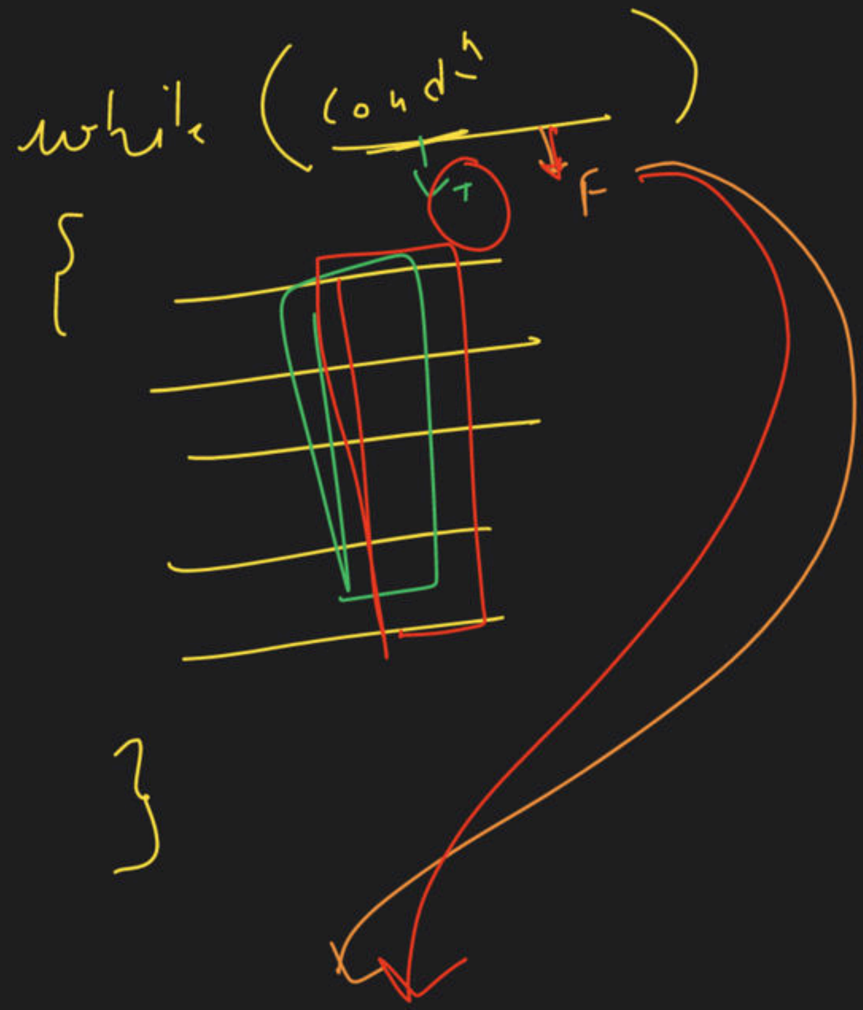
3 != 0 → T

2 != 0 → T

1 != 0 → T

0 != 0 → F

→



→ 3 2 1 - 3 3 3 3 3 3

Ques → Print your name "n" times

i/p

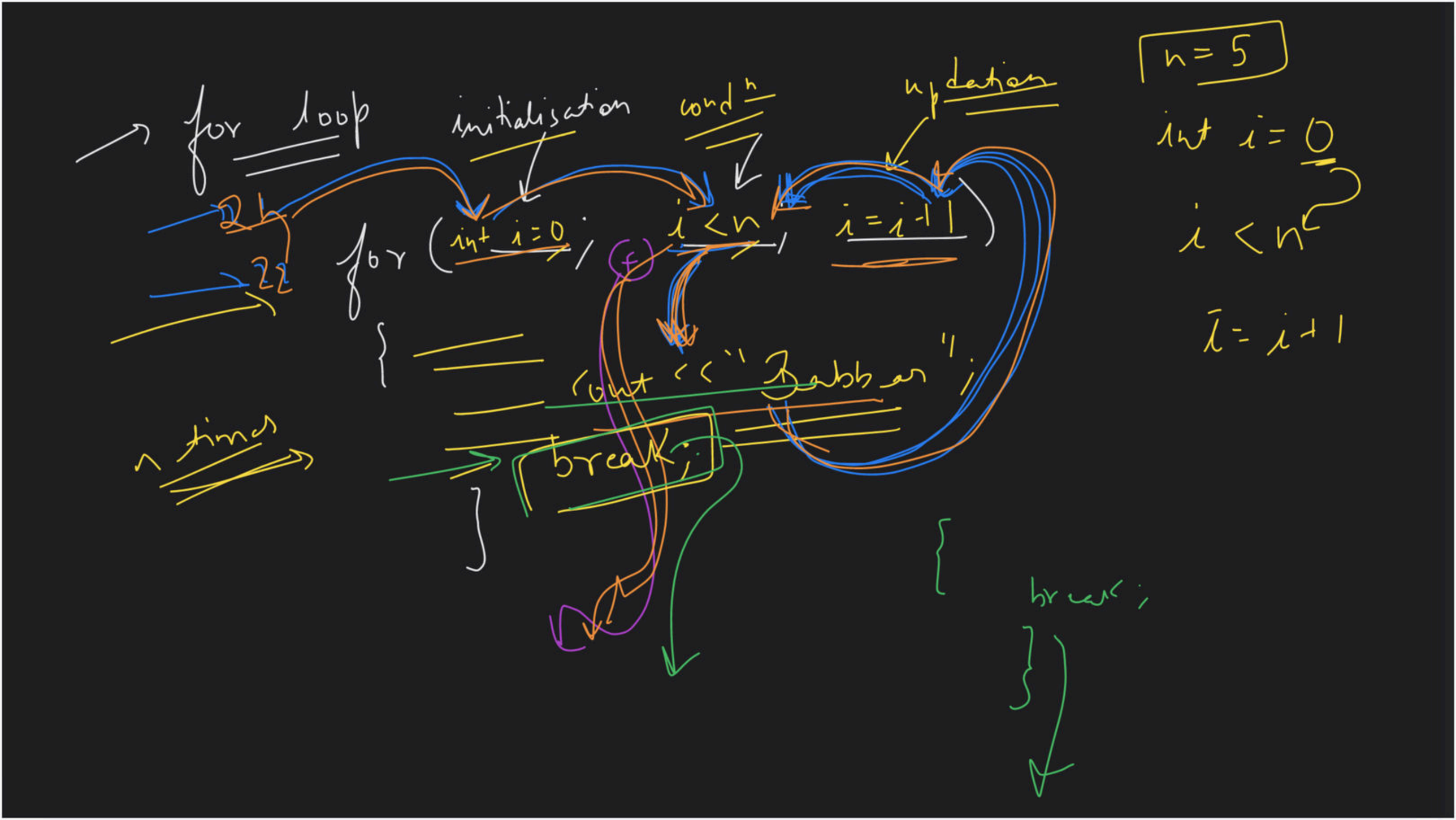
while

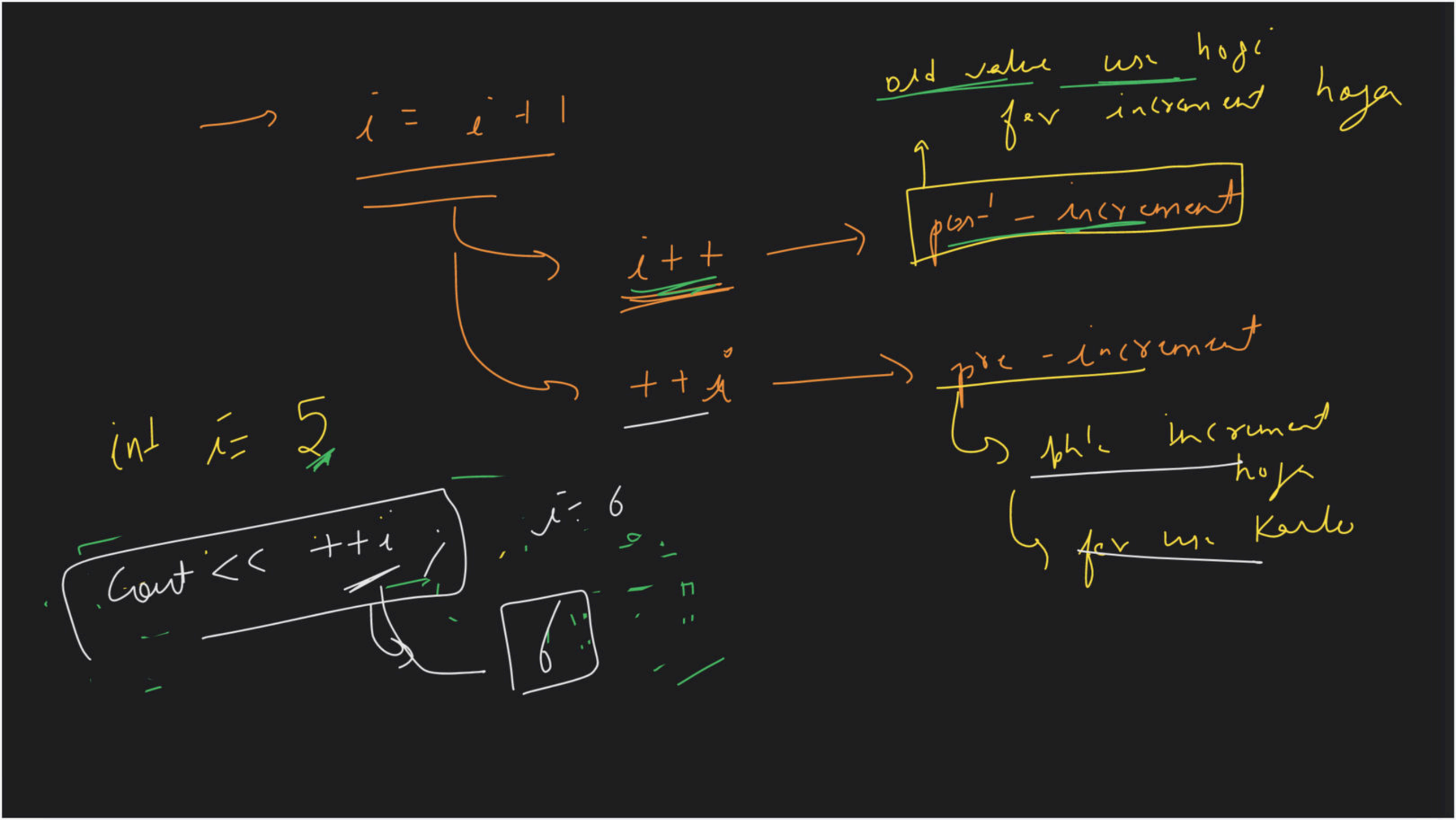
s/w → i/p → n

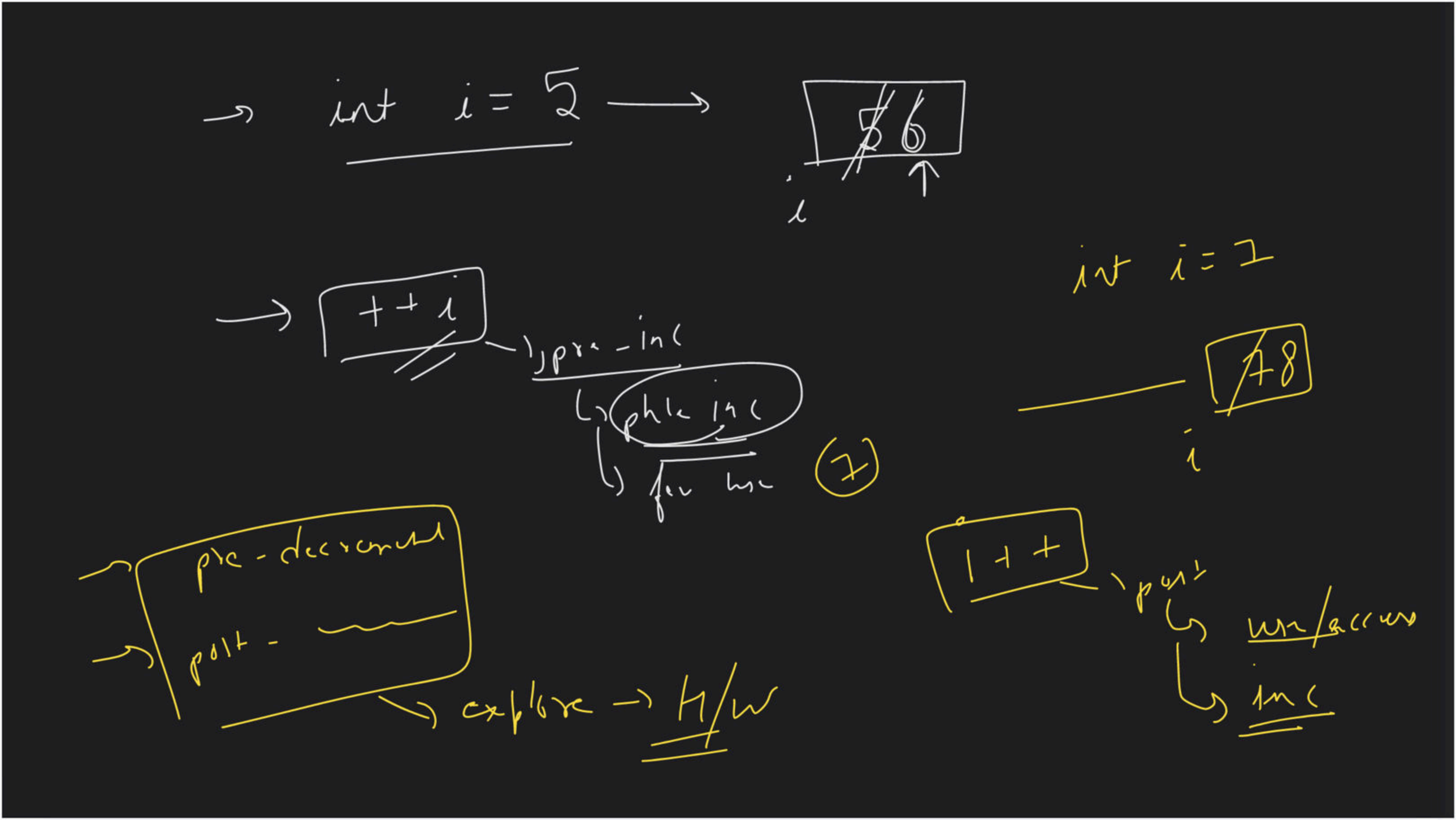
o/p → 1 + 2 + 3 + 4 + ... + n

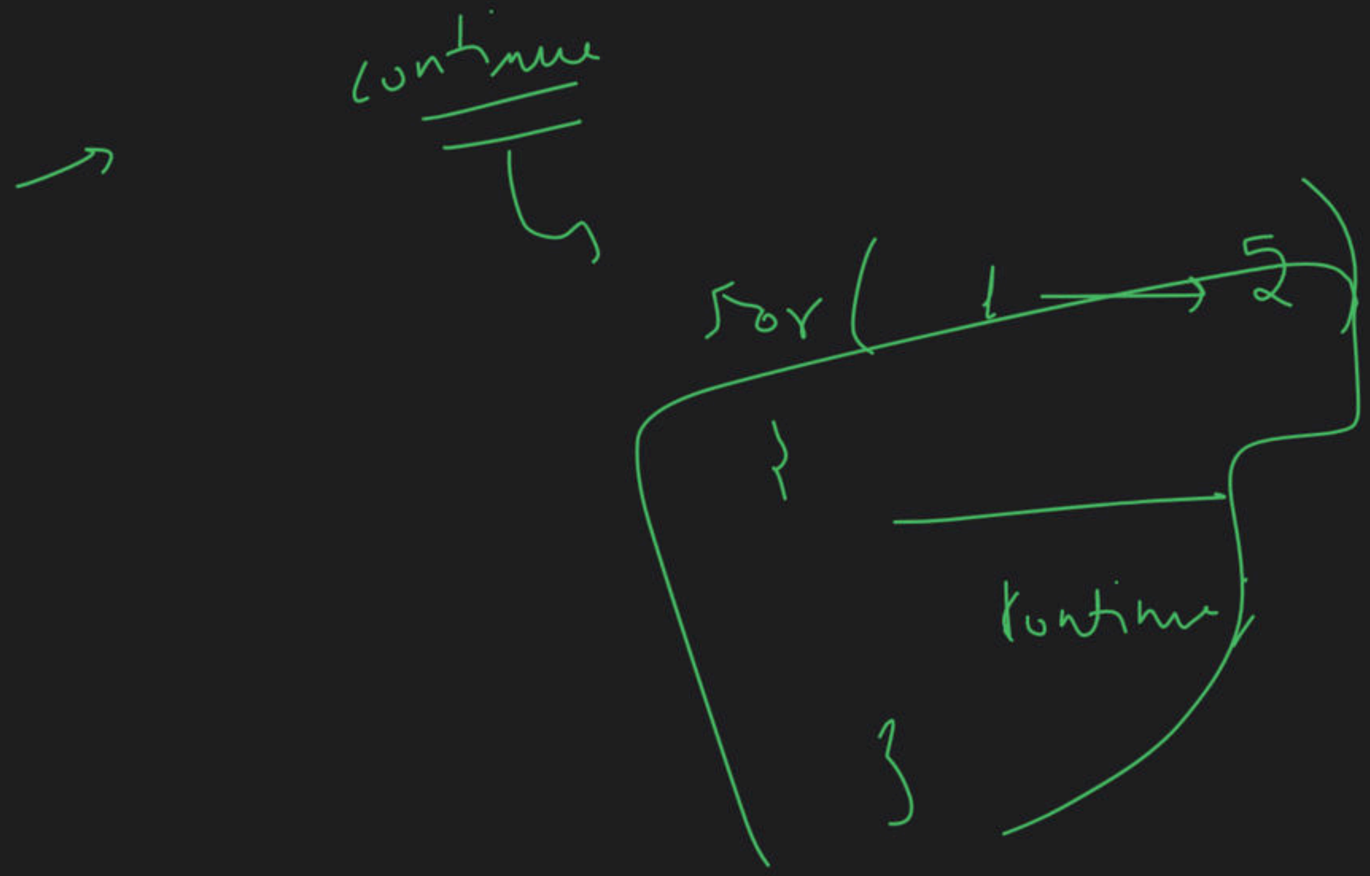
n(n+1)/2

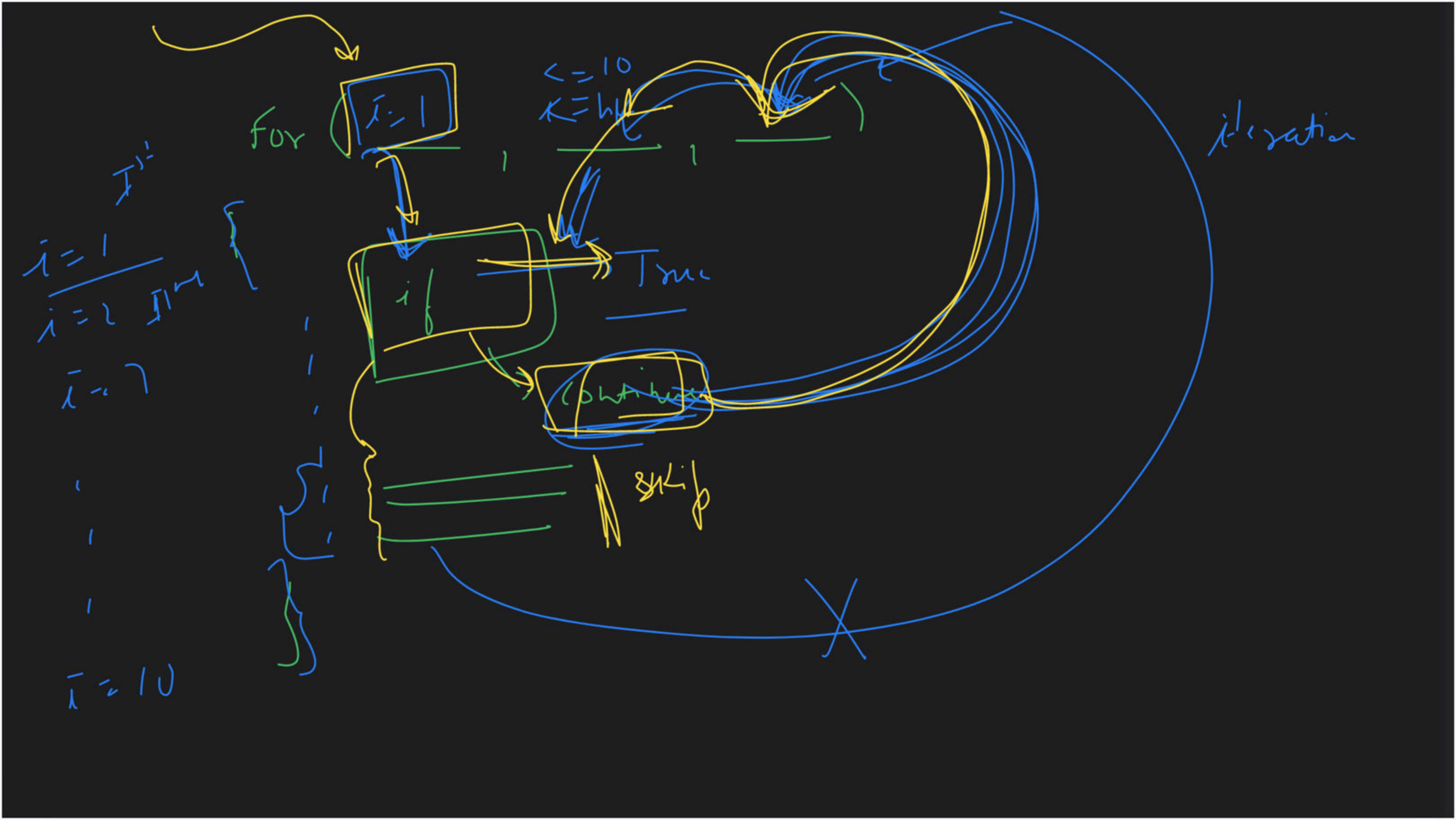
Sum


for loop
initialisation
condn
updation
n=5
int i=0
i<n
i=i+1
for (int i=0; i<n; i=i+1)
{
cout<<"Babbar";
break;
}
n times
{
break;
}


i = i + 1
i++
++i
old value use hoga
for increment hoga
post - increment
pre - increment
int i = 5
cout << ++i ;
i = 6
6


int i = 5
6
i
++i
pre-inc
phle inc
for loc
(7)
int i = 7
8
i
pre-decrement
post-
explore → H/W
i++
post
use/access
inc


continue
for (i → 5)
{
continue;
}


for
i=1
i<=10
i++
i=1
i=2
i=7
i=10
true
false
continue
iteration

→ conditional → if, else, else if, switch → H/W - Calculator

→ loops → for / while → Patterns

for each → Fruits

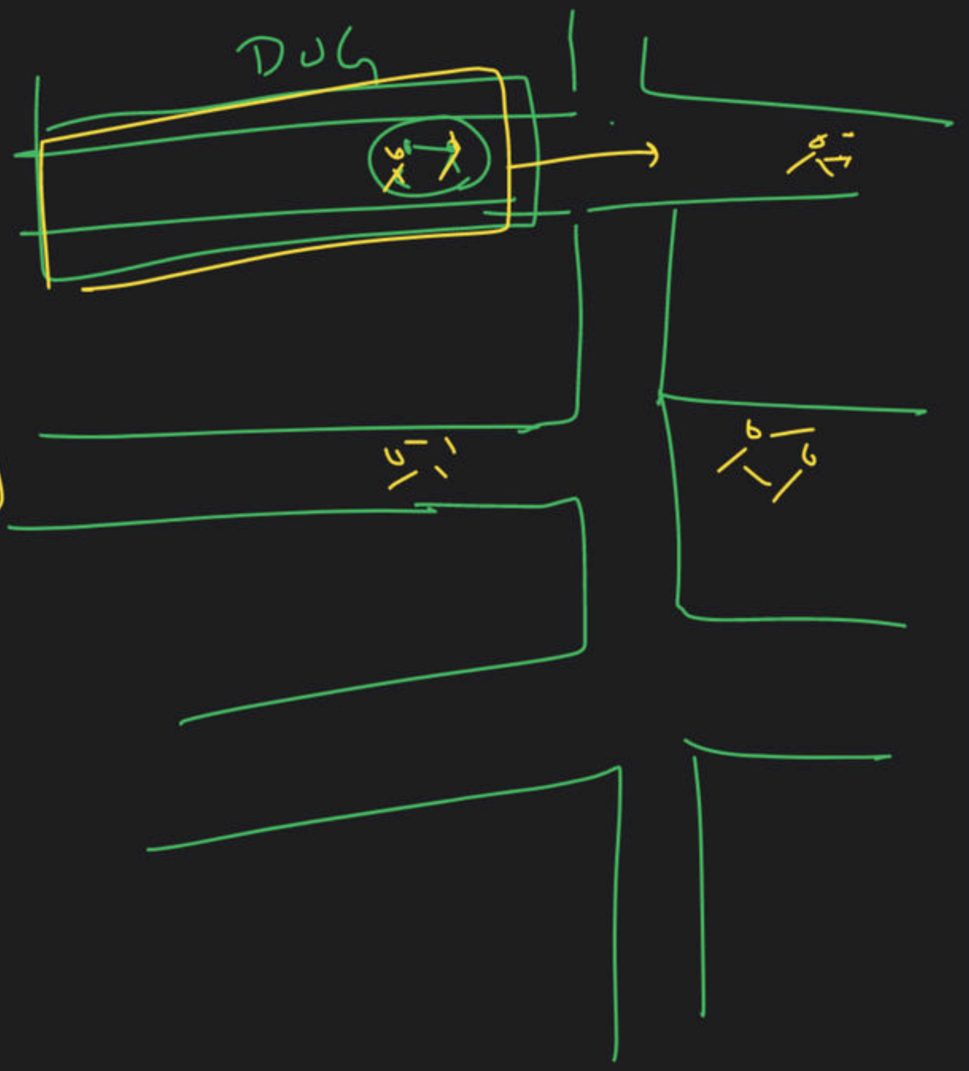
start Karde

use-cases → statement / body → do-while → ( ) → ~~testing~~ when to use this ?

→ pre / post → inc / dec → M(9)

→ break; continue → M(4)

→ Variable Scoping

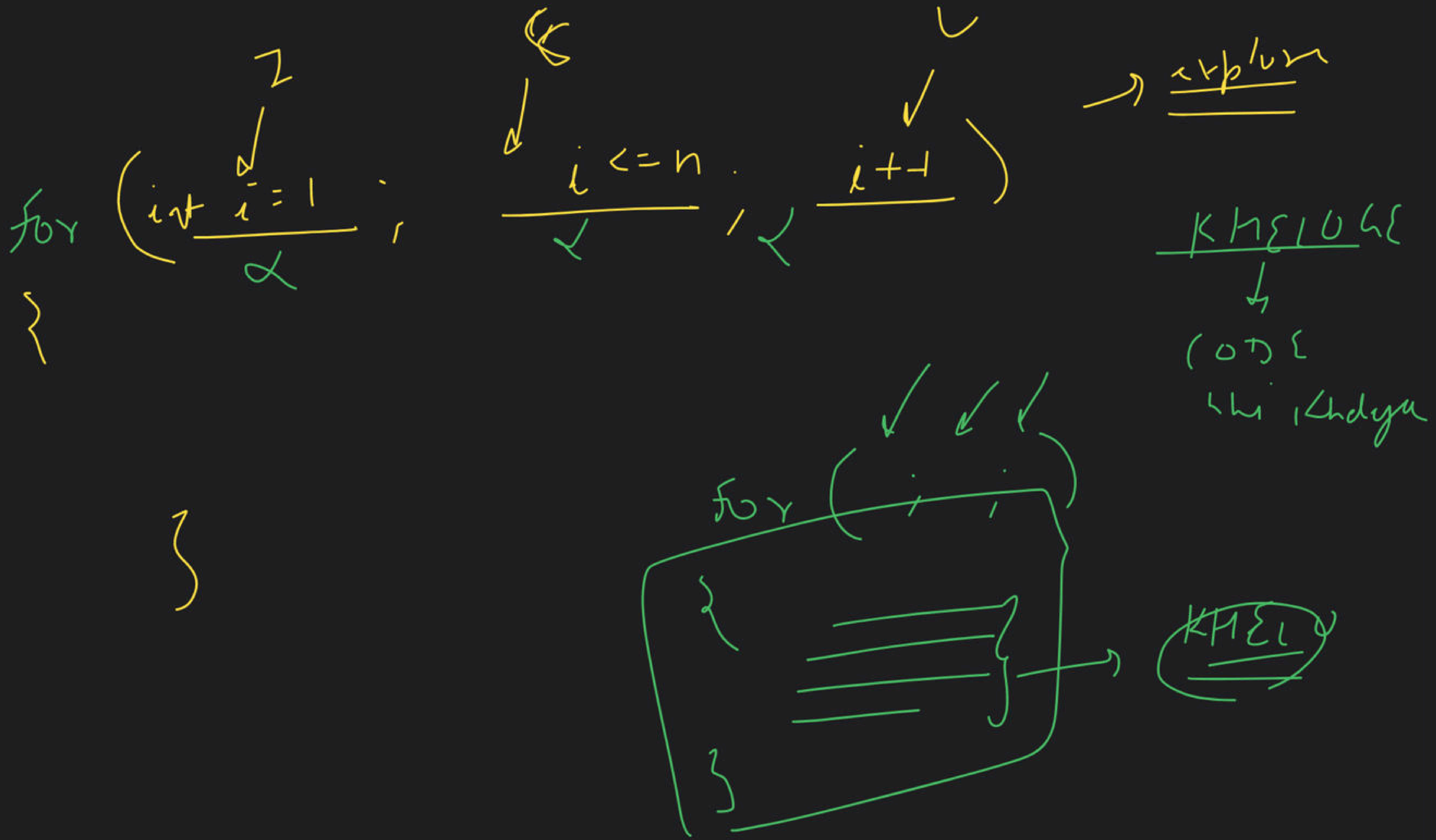


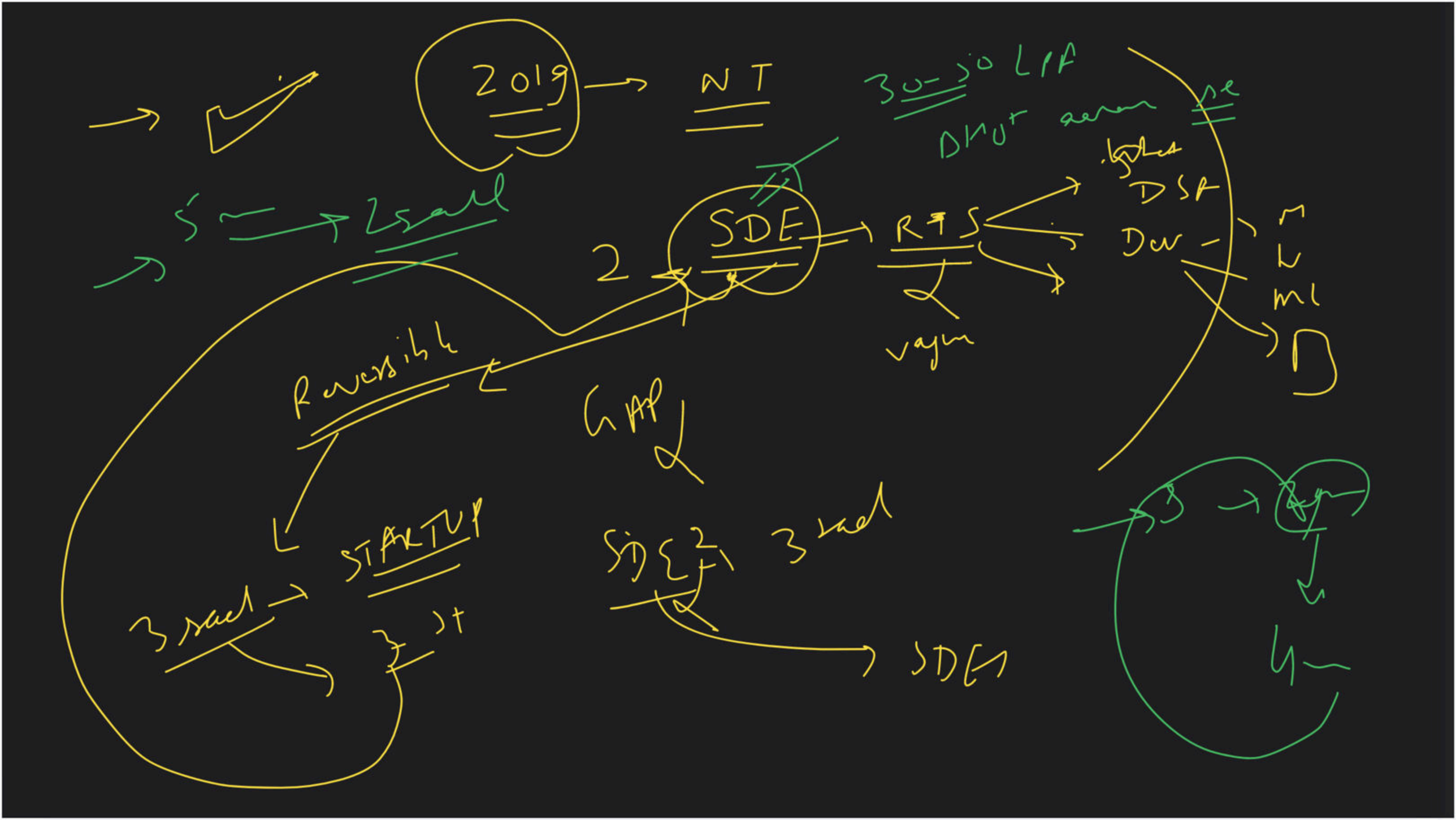
For (int i = 0; — ; —)

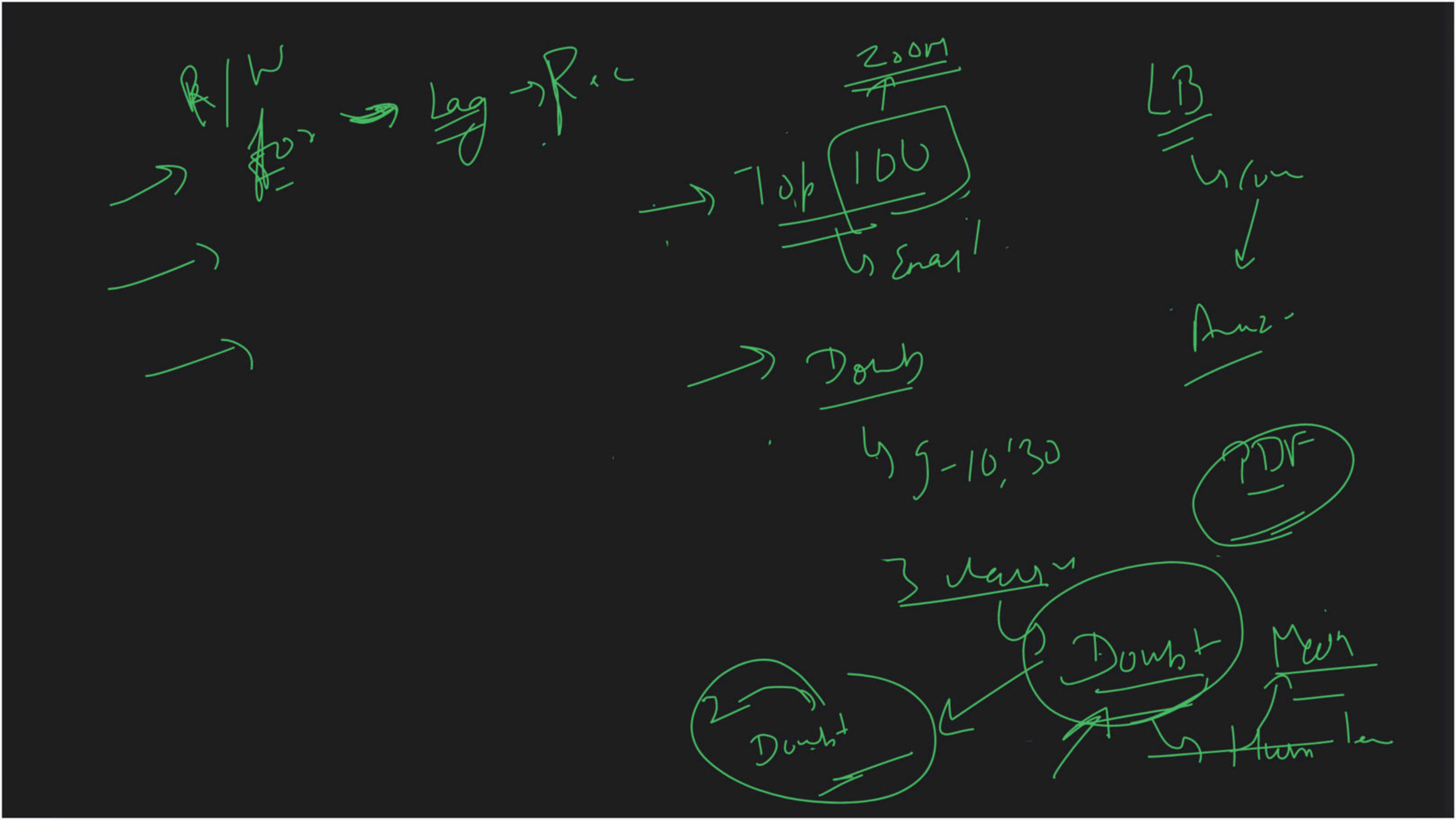
{

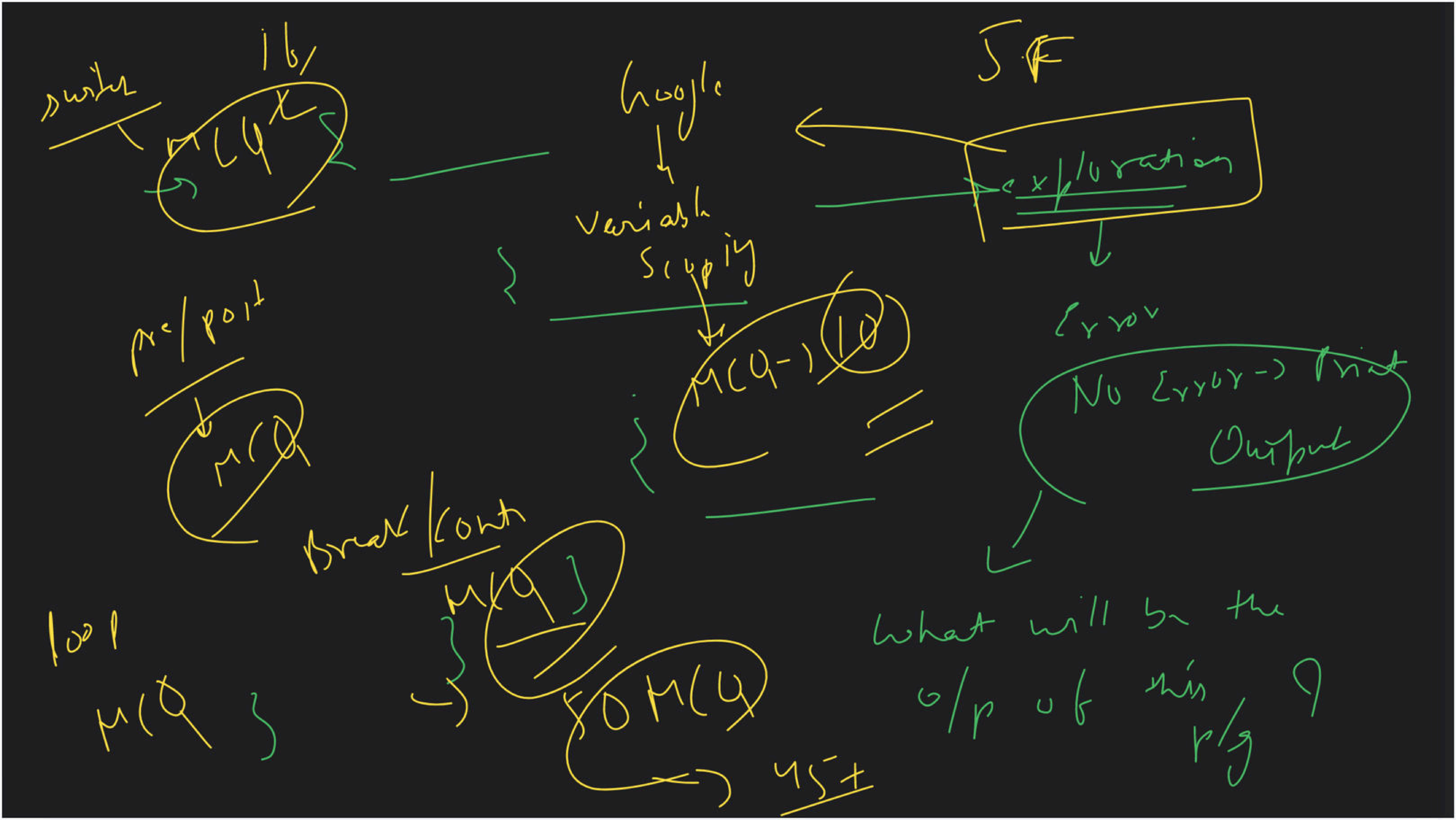
}

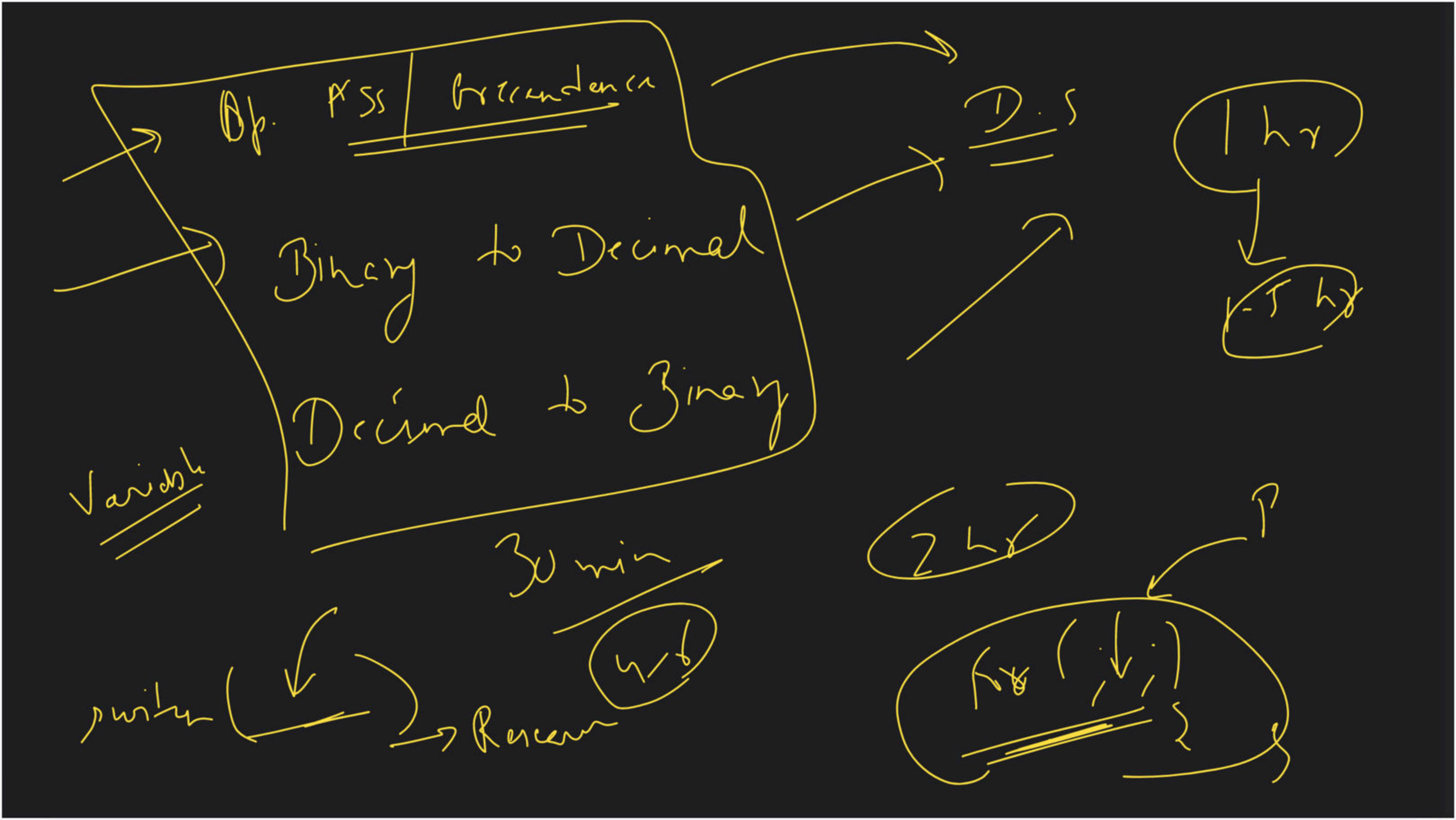
Or

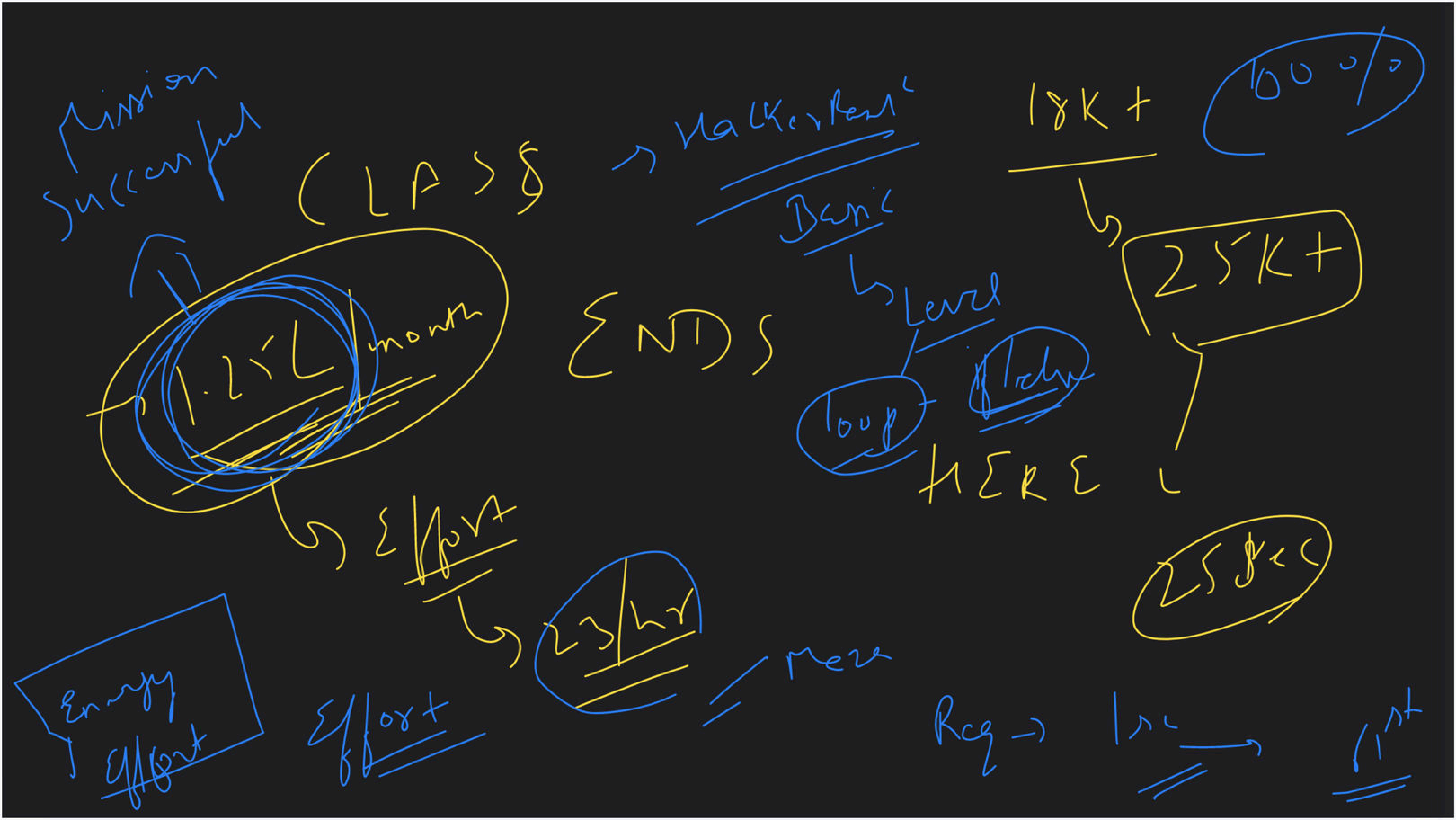

for (int i = 1 ; i <= n ; i++)
for (; ;)


2019
NT
SDE
RTS
DSA
ML
STARTUP
GAP
SDE


R/W
Lag → R...
Zoom
Top
IDU
Email
LB
Amz.
Doubt
5-10'30
PDF
3 days
Doubt
Doubt
Mail


switch
JS
exploration
Error
No Error -> Print
Output
pre/post
MCQ
Break/Cont
loop
MCQ
50 MCQ
45+
What will be the o/p of this p/g ?


Op.
Pass
Precedence
Binary to Decimal
Decimal to Binary
D.S
1 hr
1-1 hr
Variable
30 min
4 hr
switch
Recursion
2 hr
P
for (; ;)



Mission Successful
CLASS
Basic
Level
18K+
100%
25K+
1.25L/month
ENDS
Loop
HERE
Effort
23/hr
Energy
Effort
Effort