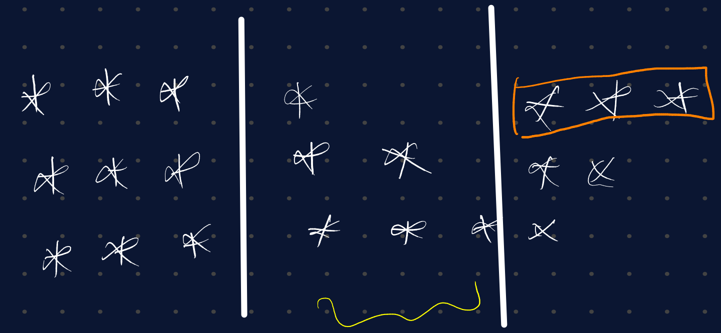
Class – 3 (8th May 2024)

(16)



Rev triangle.

→ 3 ✓
→ 2 ✓
→ 1 ✓

n = 3

i

3 - 0 = 3
3 - 1 = 2
3 - 2 = 1

(n - i) ✓ Doubt ☺

for(0 ≤ i < 3)
for(0 ≤ j < ☐)

formula ?
→ Reverse △.

Print (*)

(17)

(3x3) → box → (n x n) ✓

→ Print → –
→ *

cout << "_"; (Space) ✓

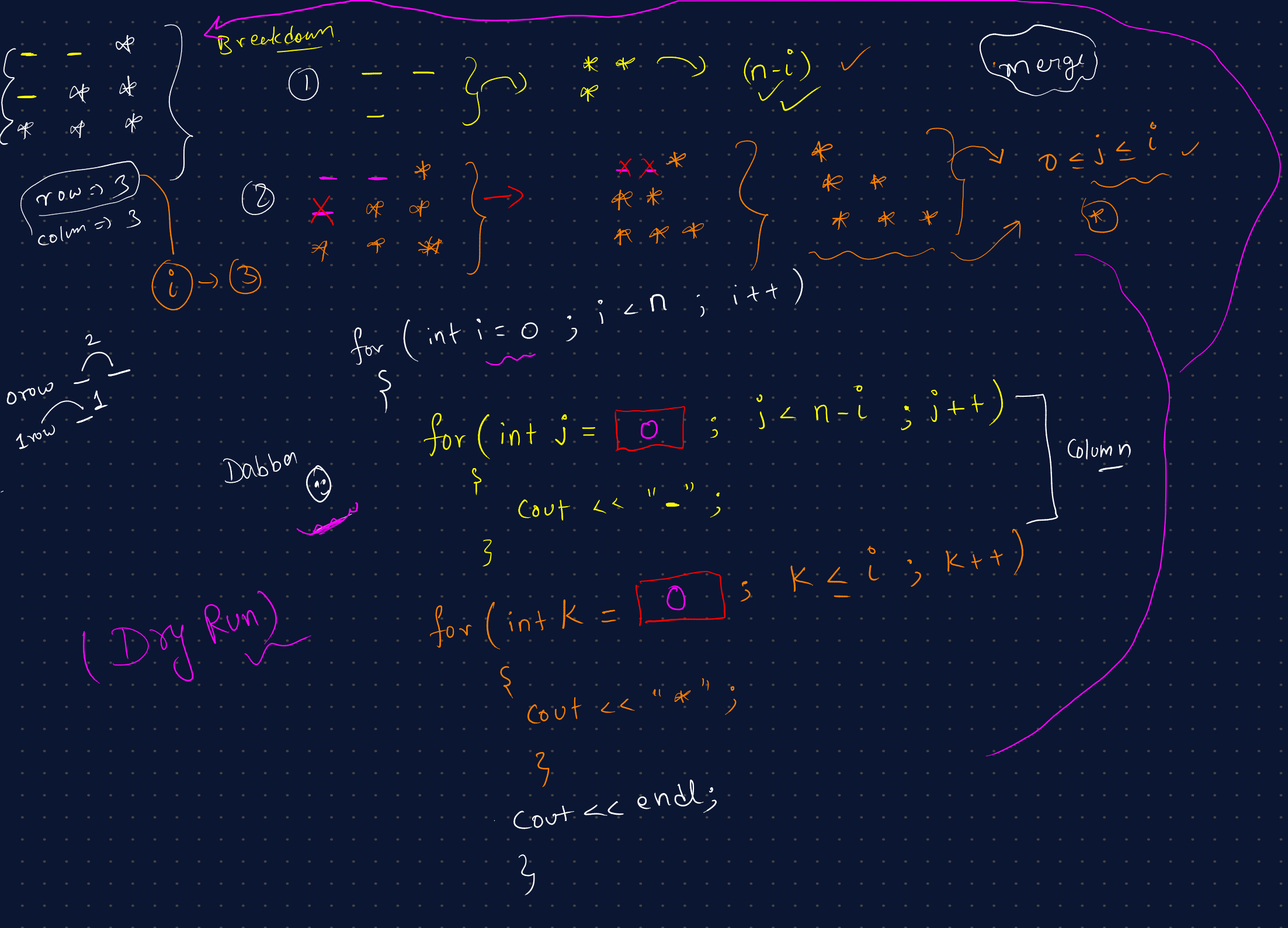
Star (*) →

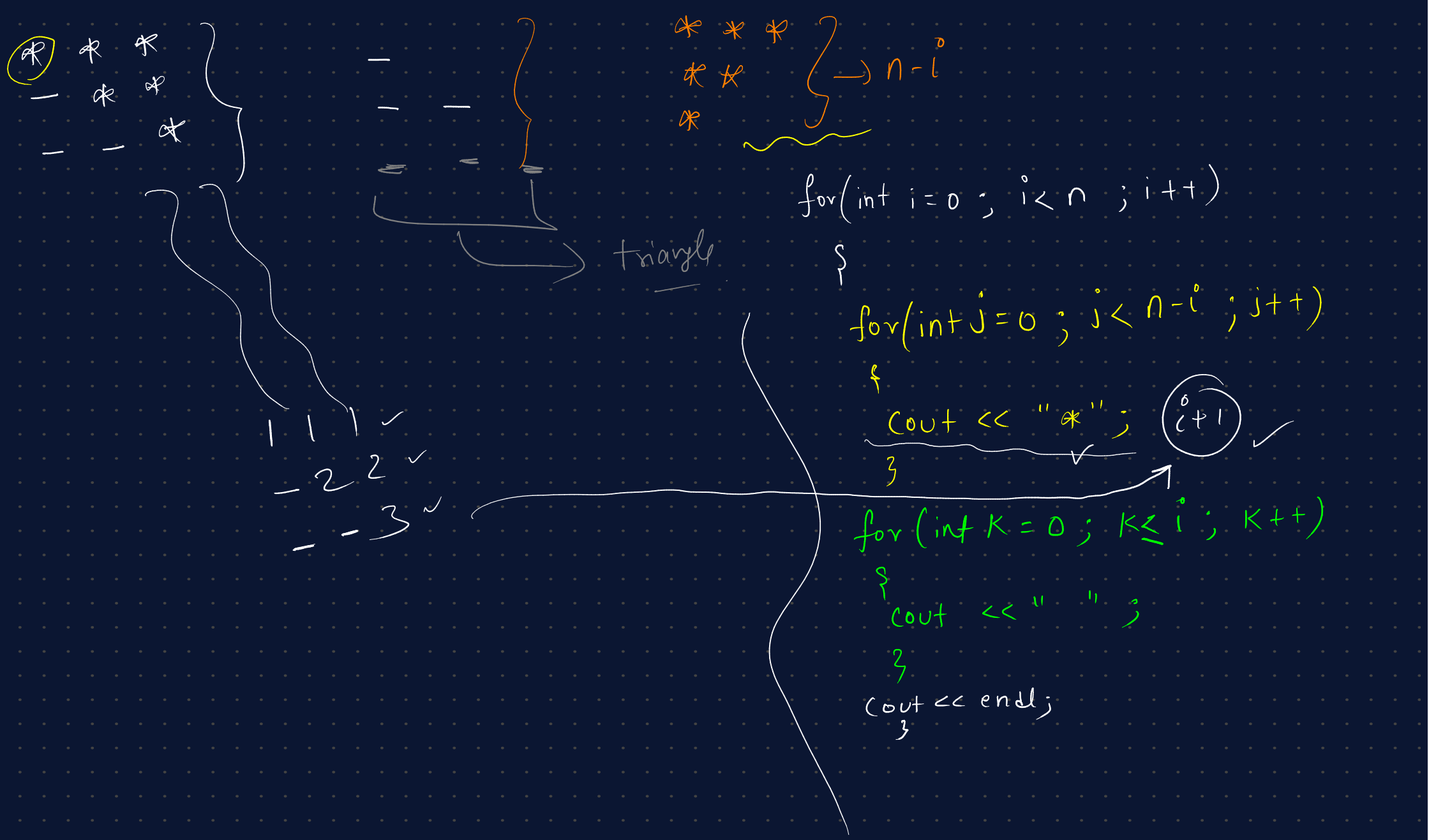
for → row
loop → (*) → column
loop → (–) → column

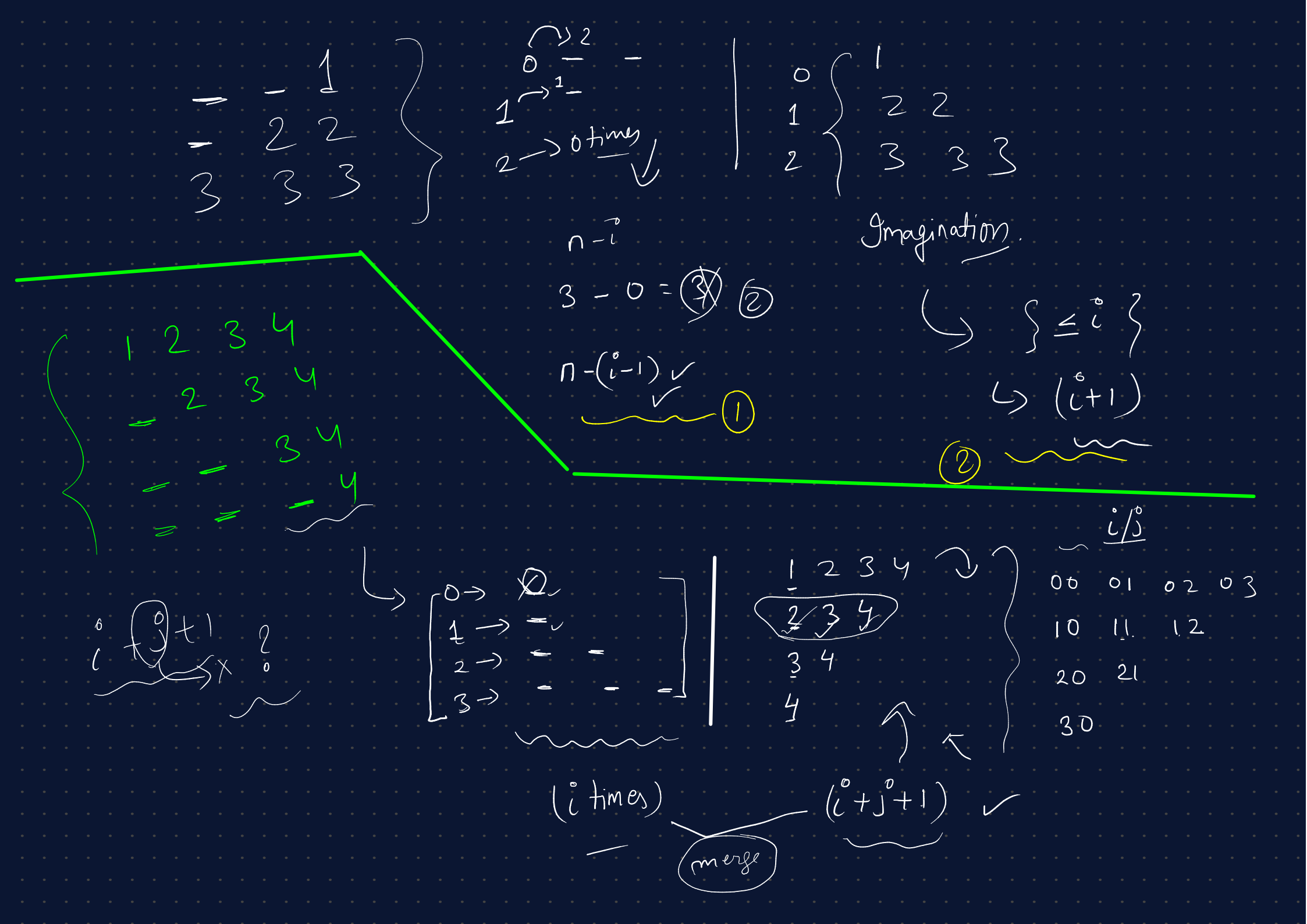
(* * *) → 1 loop ✓
Bar Bar

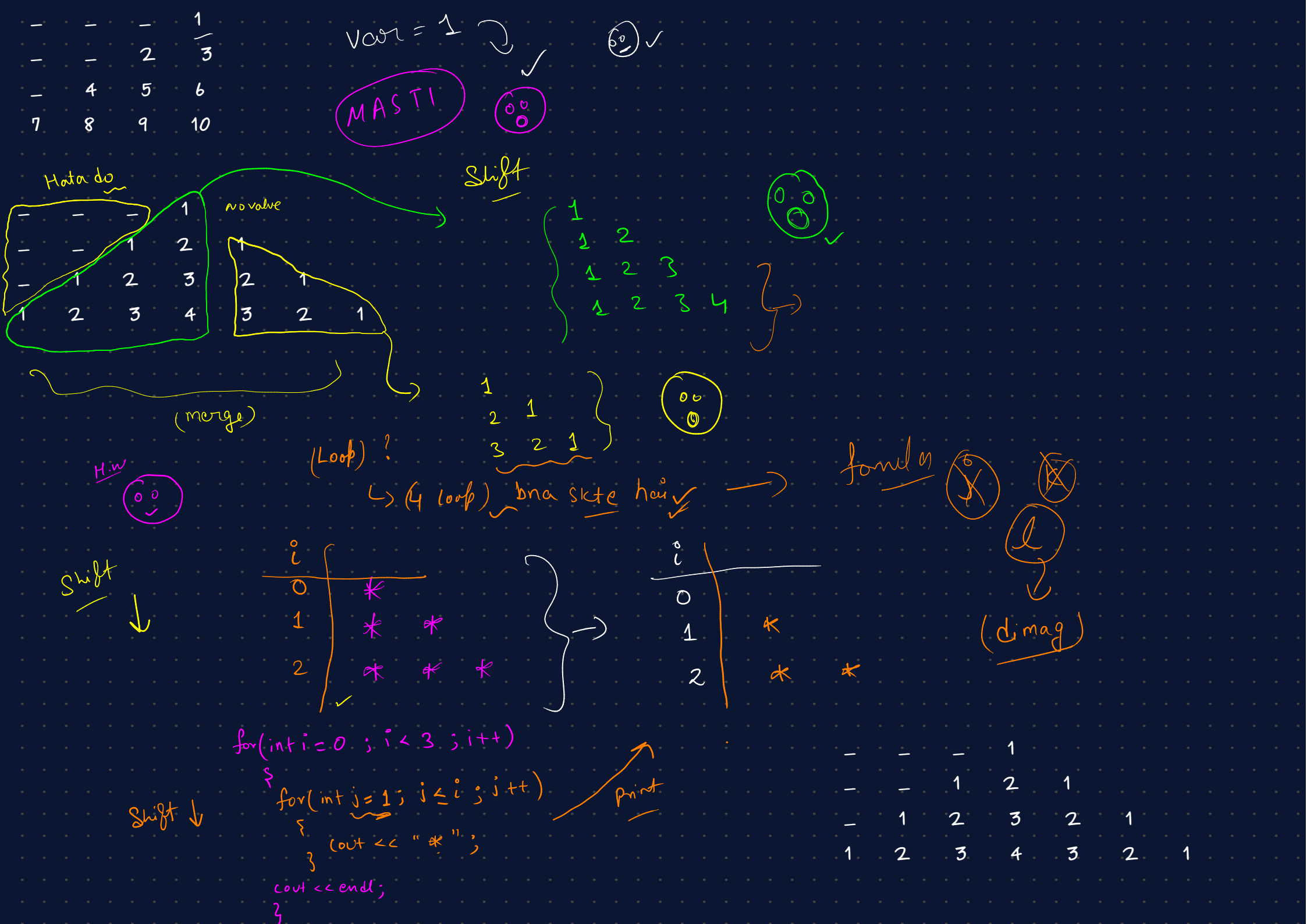
* * *
* * *
* * *
→ 1 loop ✓

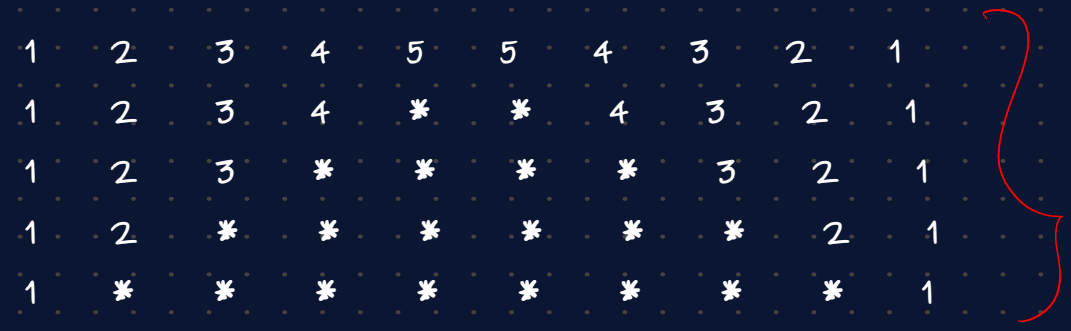
(– – *) → 2 loop ✓
kab kab → 1 loop
kab kab → 1
→ Bar Bar
→ 1 loop ✓

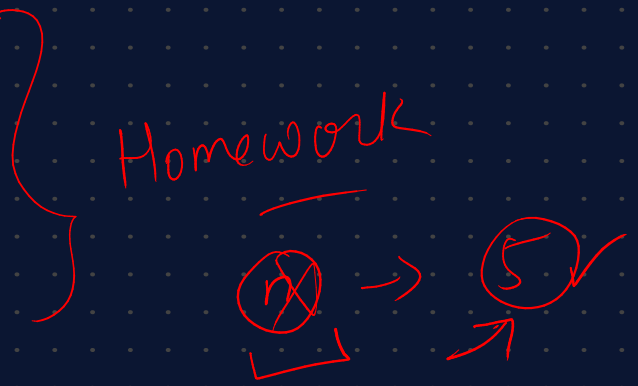

Breakdown
merge
row => 3
colum => 3
(n-i)
0 ≤ j ≤ i
for (int i = 0 ; i < n ; i++)
{
for (int j = 0 ; j < n-i ; j++)
{
cout << " " ;
}
Column
for (int K = 0 ; K ≤ i ; K++)
{
cout << "*" ;
}
cout << endl;
}
Dabba
(Dry Run)

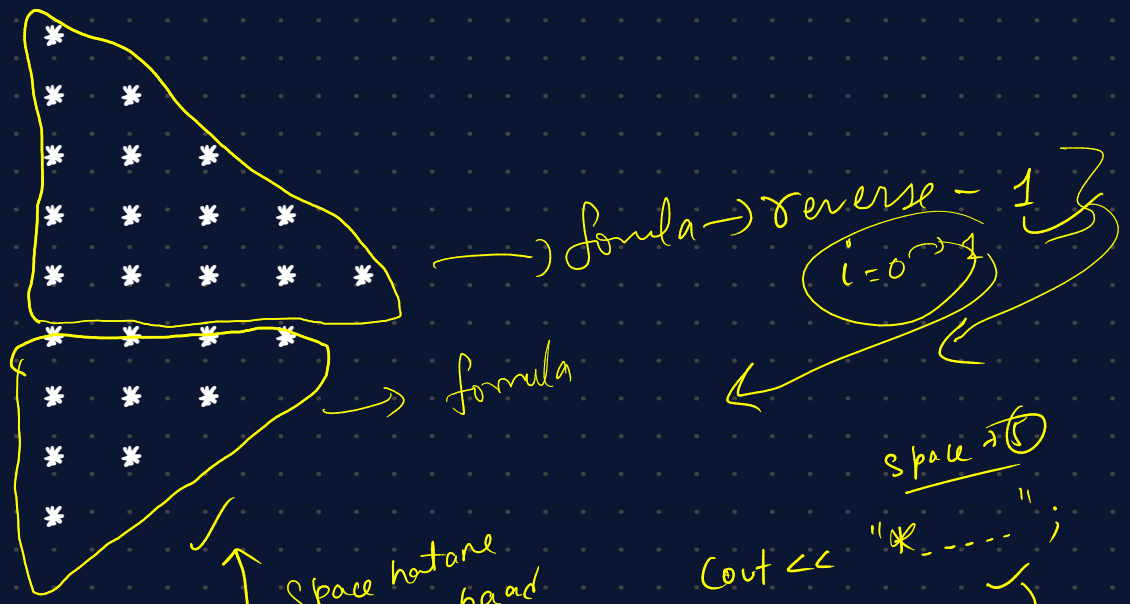

n-i
triangle
for(int i=0 ; i<n ; i++)
{
for(int j=0 ; j< n-i ; j++)
{
cout << "*";
}
for (int k=0 ; k<= i ; k++)
{
cout << " ";
}
cout << endl;
}
i+1


1
2 2
3 3 3
0 → 2
1 → 1
2 → 0 times
0 1
1 2 2
2 3 3 3
n - i
3 - 0 = 3 ②
n - (i - 1) ①
Imagination.
{ ≤ i }
(i + 1)
②
1 2 3 4
2 3 4
3 4
4
i/j
00 01 02 03
10 11 12
20 21
30
0 → 0
1 →
2 →
3 →
1 2 3 4
2 3 4
3 4
4
(i times)
merge
(i + j + 1)


_ _ _ 1
_ _ 2 3
_ 4 5 6
7 8 9 10
var = 1
MASTI
Hata do
novalue
Shift
(merge)
(Loop) ?
(4 loop) bna skte hai
fondly
(dimag)
H.w
Shift
i
0 *
1 * *
2 * * *
print
for(int i=0 ; i<3 ; i++)
{
for(int j=1; j<=i ; j++)
{
cout << "*";
}
cout << endl;
}
_ _ _ 1
_ _ 1 2 1
_ 1 2 3 2 1
1 2 3 4 3 2 1


1 2 3 4 5 5 4 3 2 1
1 2 3 4 * * 4 3 2 1
1 2 3 * * * * 3 2 1
1 2 * * * * * * 2 1
1 * * * * * * * * 1


Homework
n
5

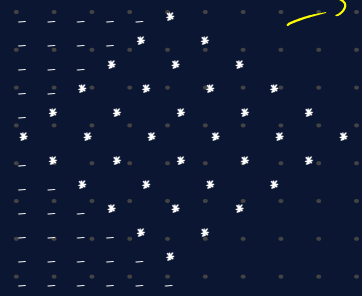

formula → reverse - 1
i=0
formula
Space hatane ke baad

space → 1
cout << "* ----- ";


formula
X


5

Exam → Space



→ Breakdown
→ Merge

if ((i == 0 || i == n - 1 || j == 0 || j == n - 1))

{ Cout << " * " ;
} else { cout << " " ; }

if else
formula → (DSA)
Another

30+ Pattern Questions

Pattern → No doubt (Ask me)

(DSA) ka (Baccha)

Pattern → Week → 1 Baar → 1 month

(Core) DSA → final destination

Yaad!