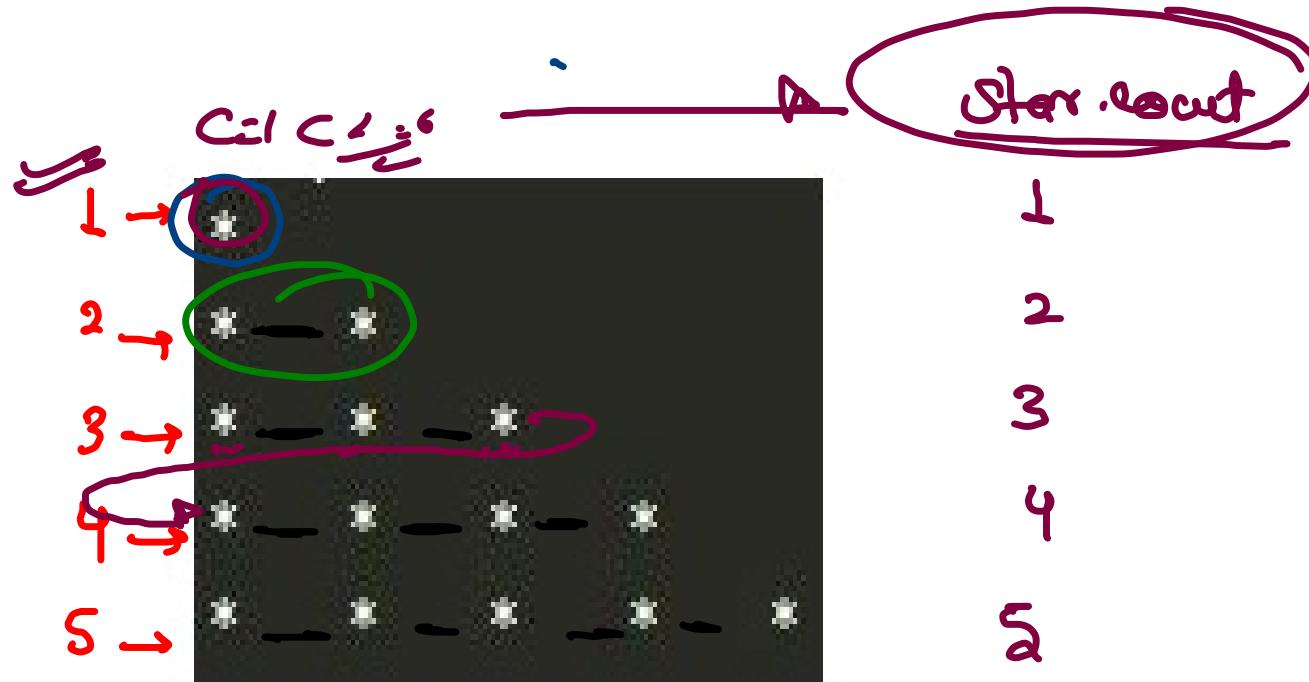


Patterns → Understanding of loops for different structure.

$n=5$



→ Star count & space count

→ Geometry.

→ Row & columns Eqn'don.

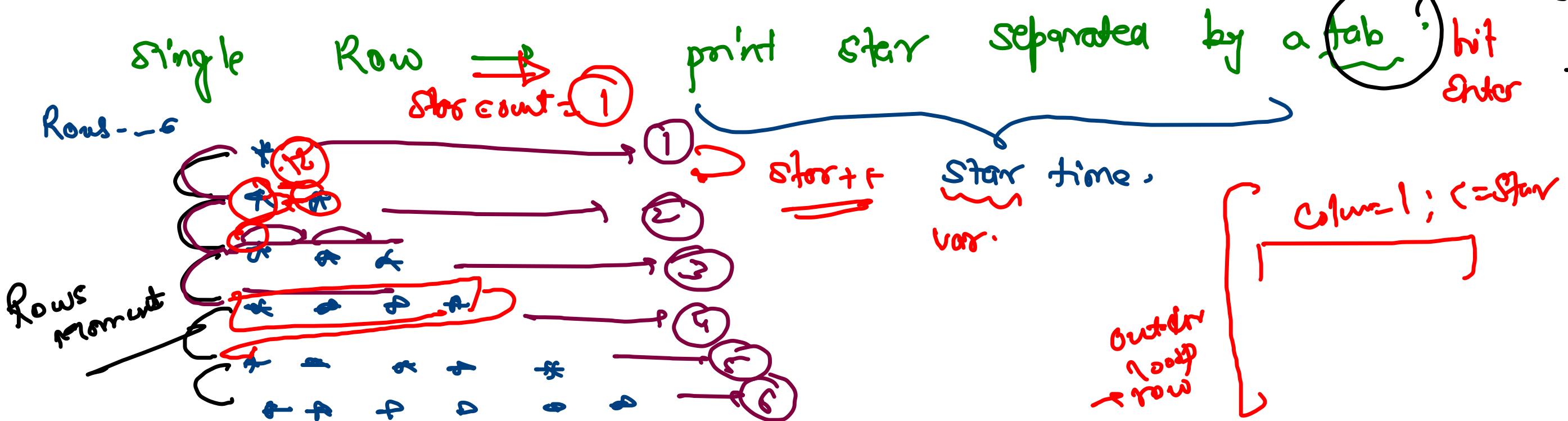
tab-print → `System.out.println("\t");`

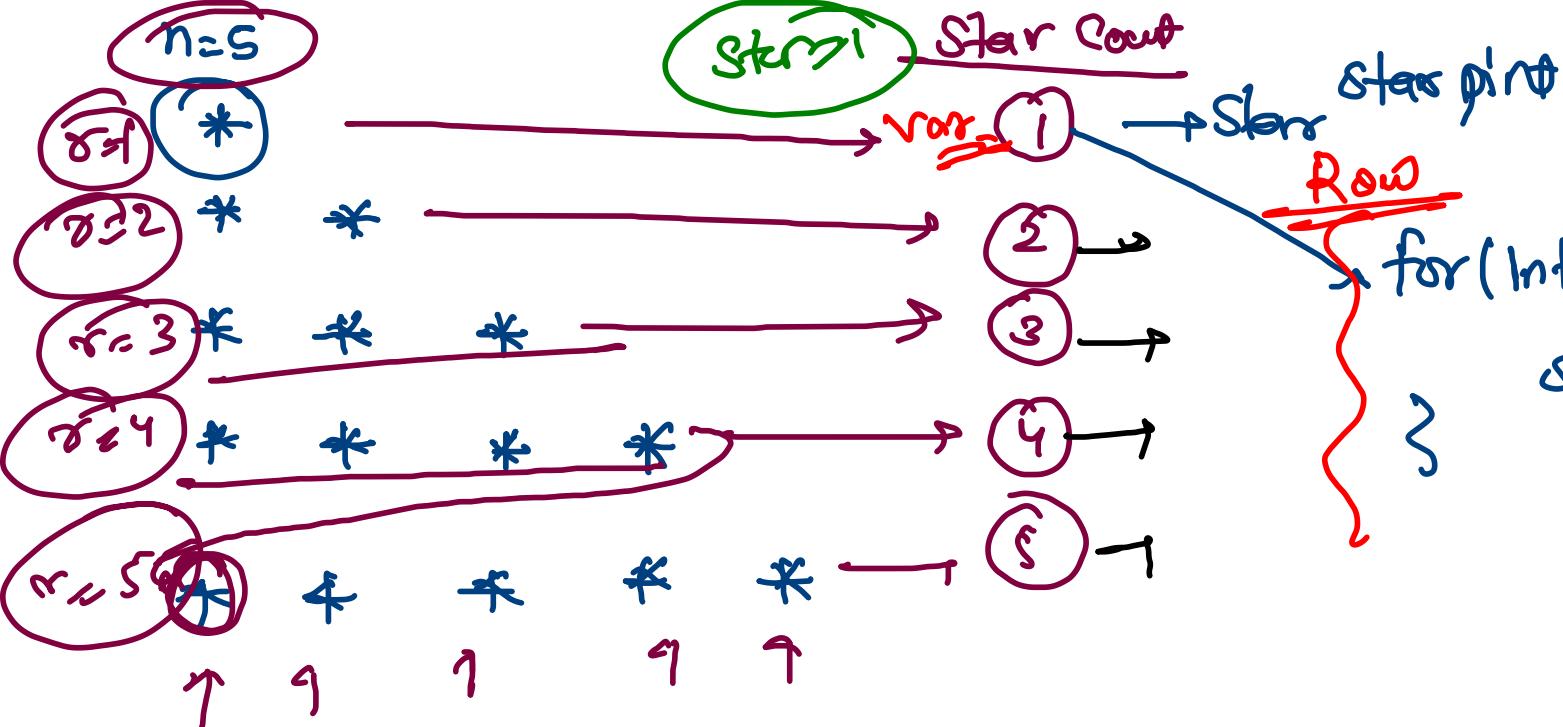
Enterit

Special character:

$\backslash t \rightarrow \text{tab}$

$\backslash n \rightarrow \text{newline}$





int &t = 1; struct {
 star; int t; }
systo(*&t);

```
System.out.println("HelloWorld");  
System.out.print("HelloWorld");
```

Output

Hello
World,

1 9 7
System.out.println(); * -
* - * -
* - * - * -
* - * - * - * -
* - * - * - * - * -
System.out.println(" message");
System.out.println(" \n"); Enter h'1'

Hello → klooks
tab

row
1
2
3
4
5



Star Count Star is initialised from Star, Total Row

5 Star = "n;"
4 Star ↓ by ① Stars --;
3
2
1

st = 5; st <= Star; st -'

hit Enter
Star = -'

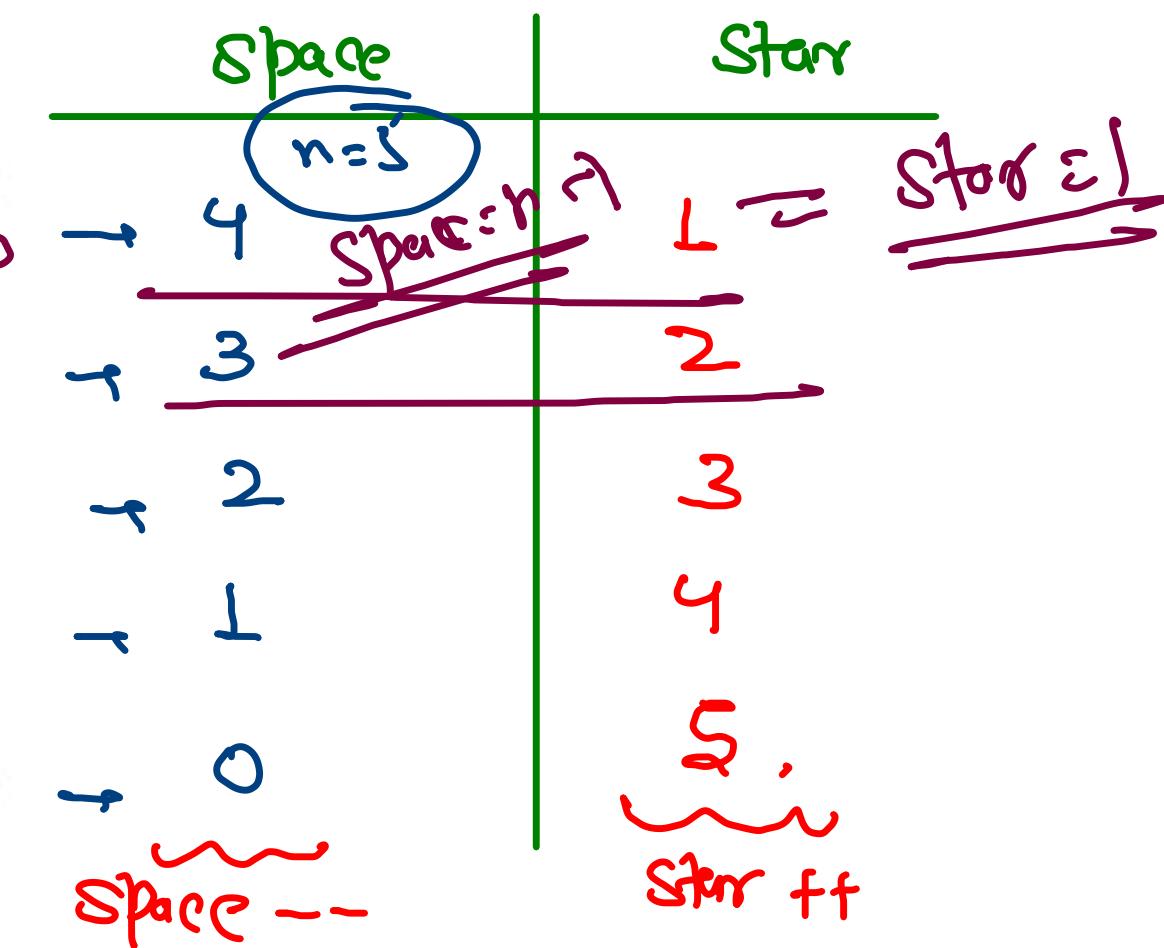
Single Row →

print Star Separated by 'tab' .

hit Enter.

$n=5$

- (1)
- (2)
- (3)
- (4)
- (5)



for y^{th} row -

print Space

Space time

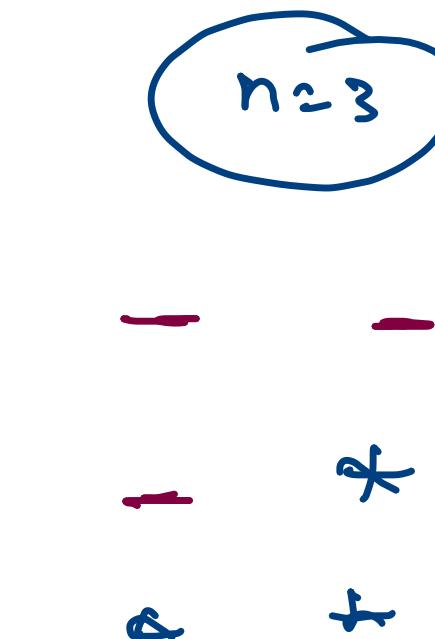
manq

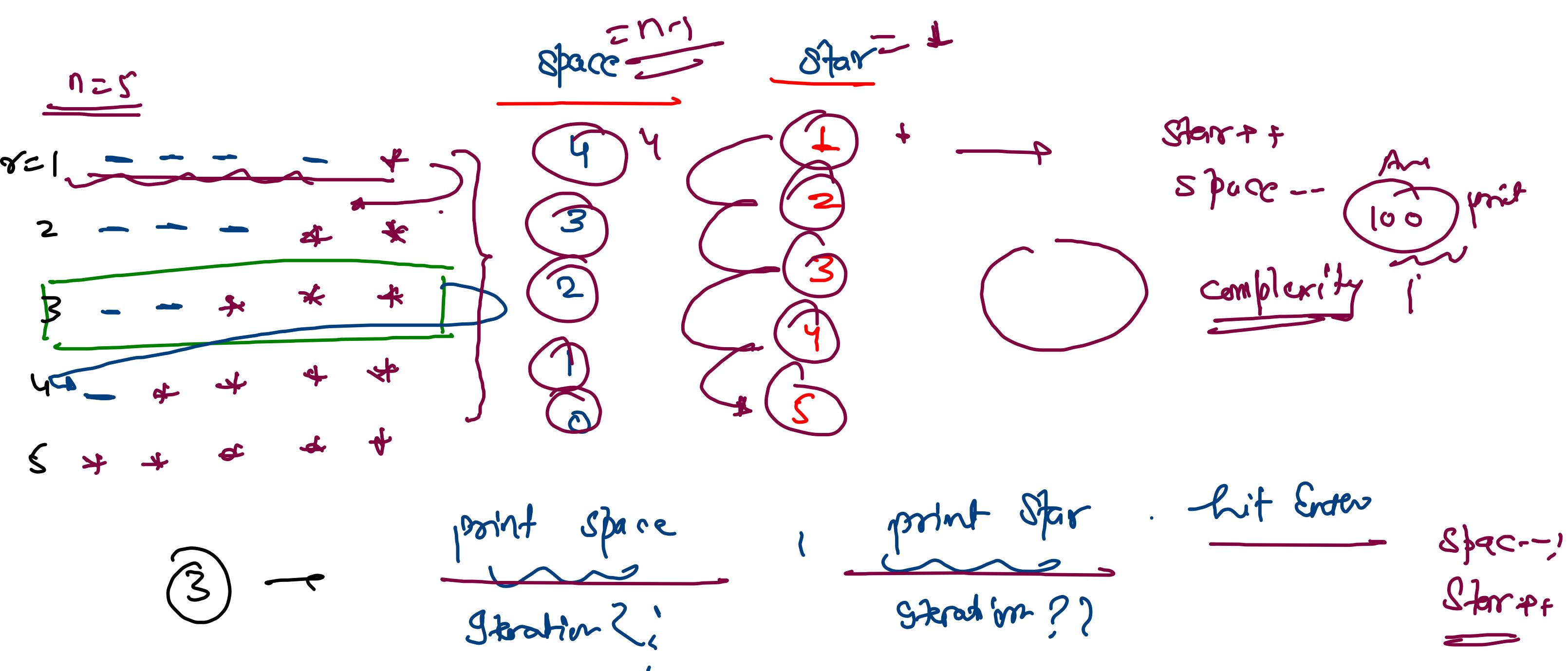
→ print star (tab
..

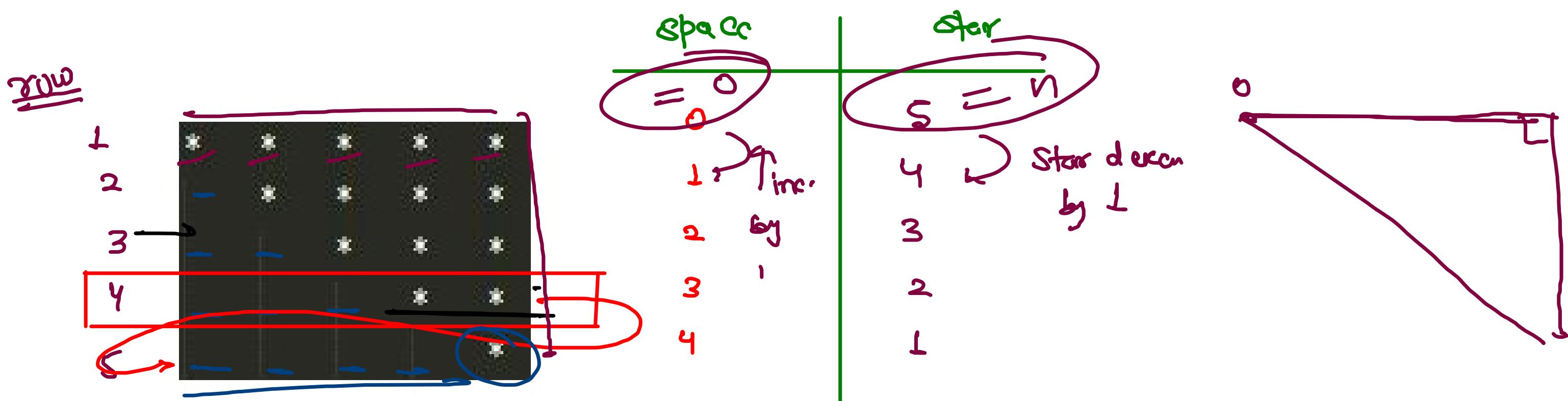
सर्व तिम

shoe & star count

Space -- ;
start p;







Single Row →

$$R = y$$

point Space

800500 6152

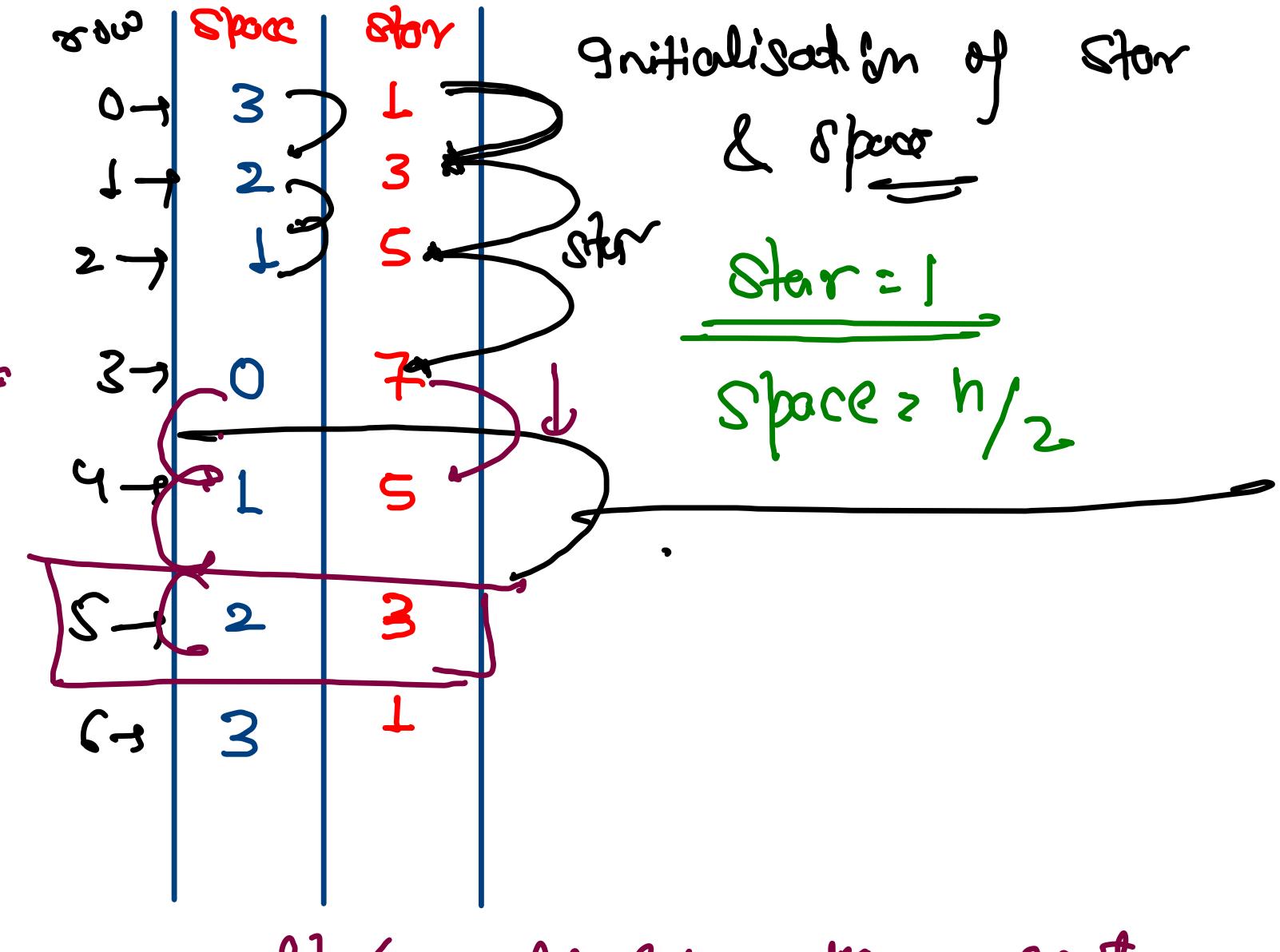
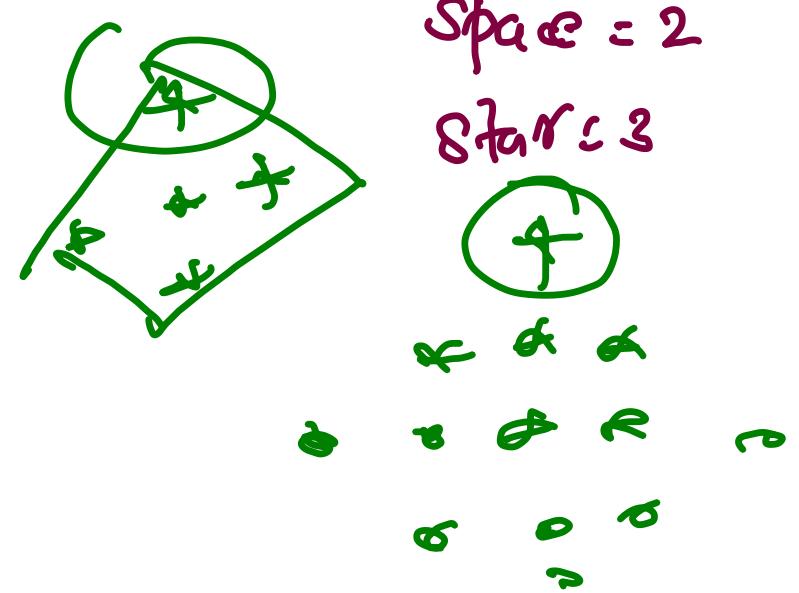
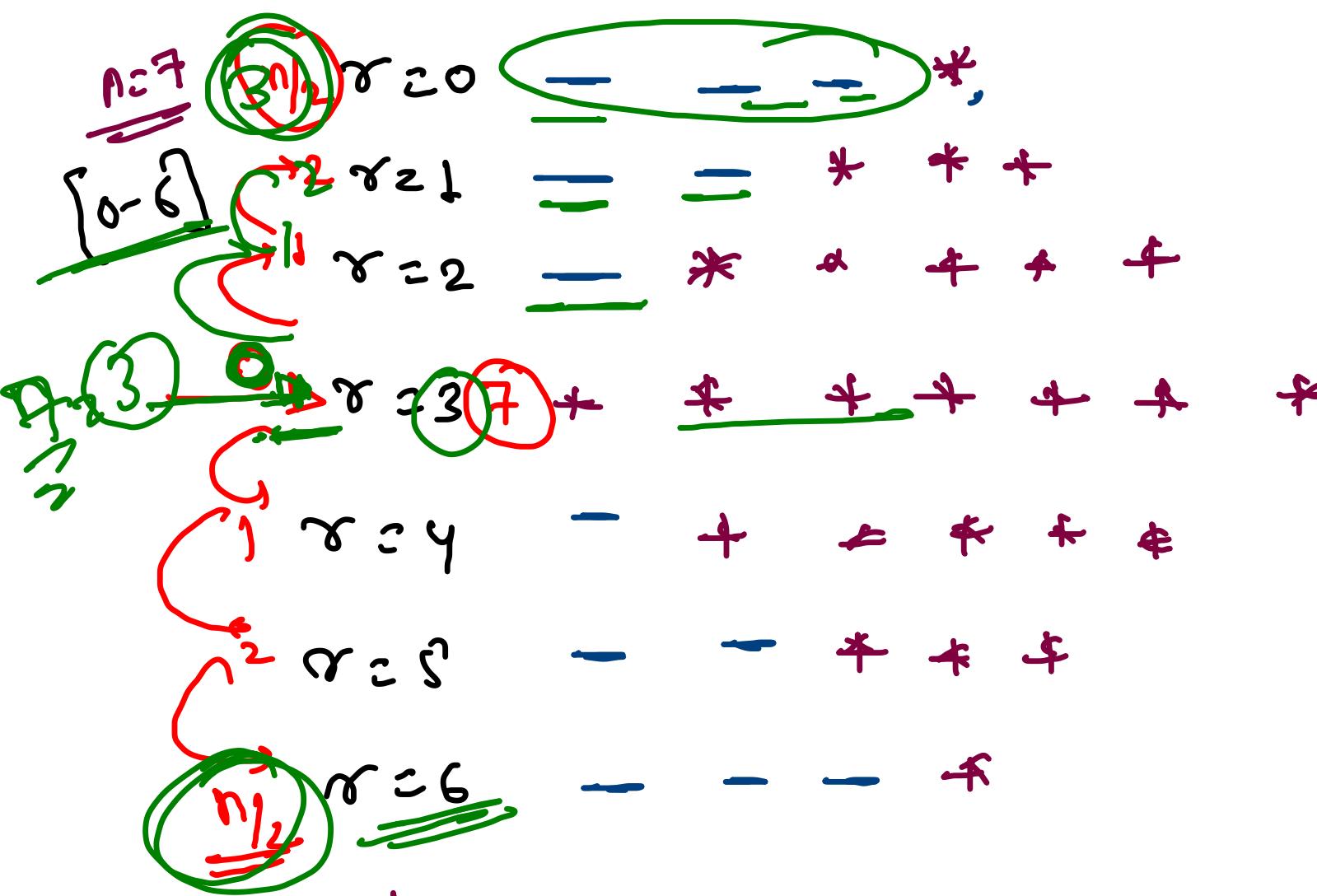
point Star

hi! Emoter .

may e

Spec cont'd
Spec Cont'd

sterr - -
space f. p.



Initialisation of Star & Space
 Star = 1
 Space = $h/2$

Range cont
 of star
 space =

Pattern 6 (Hollow Diamond)

Space = star

n=7

r=0

r=1

2

3

4

5

6

7

8

9

10

11

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13

14

15

16

17

18

19

20

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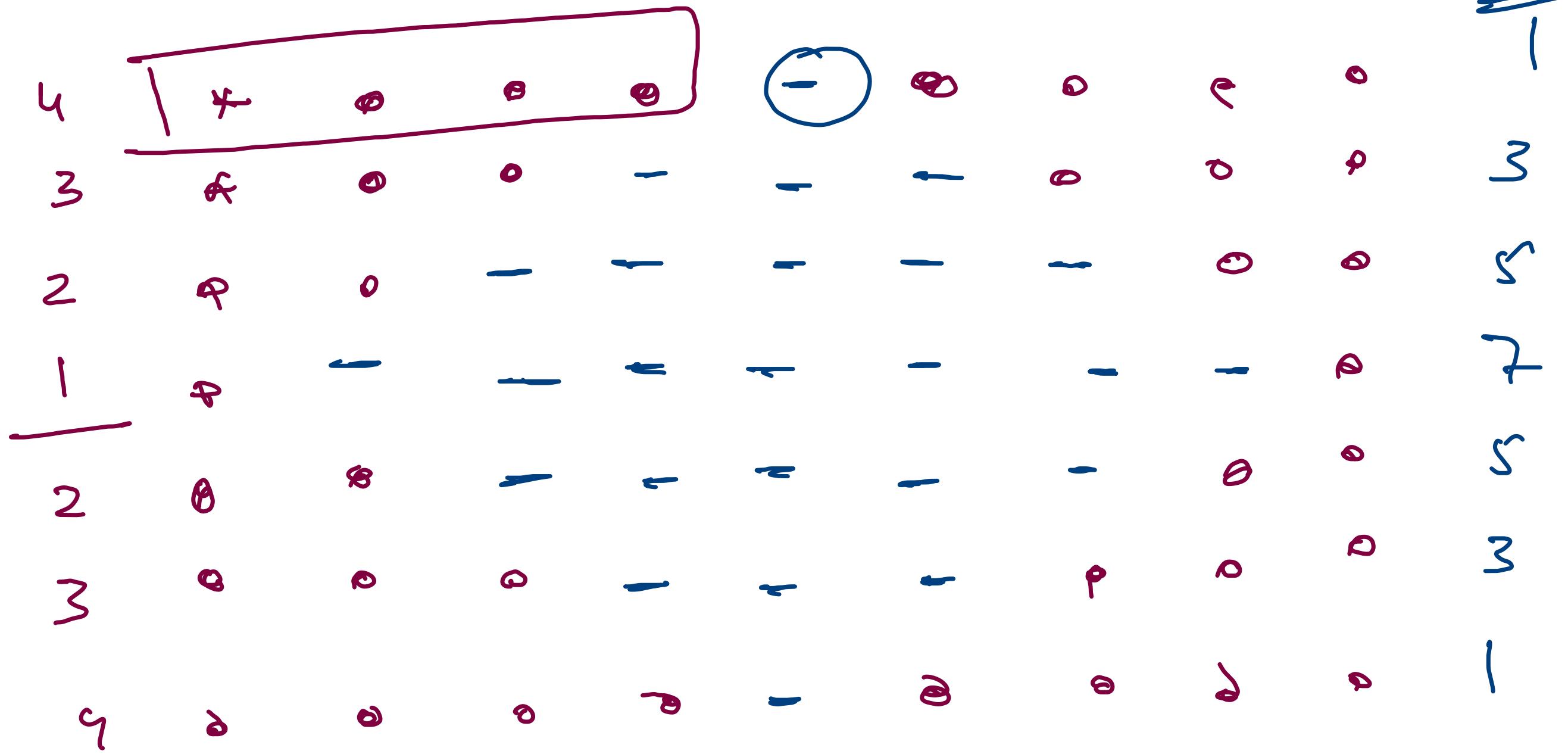
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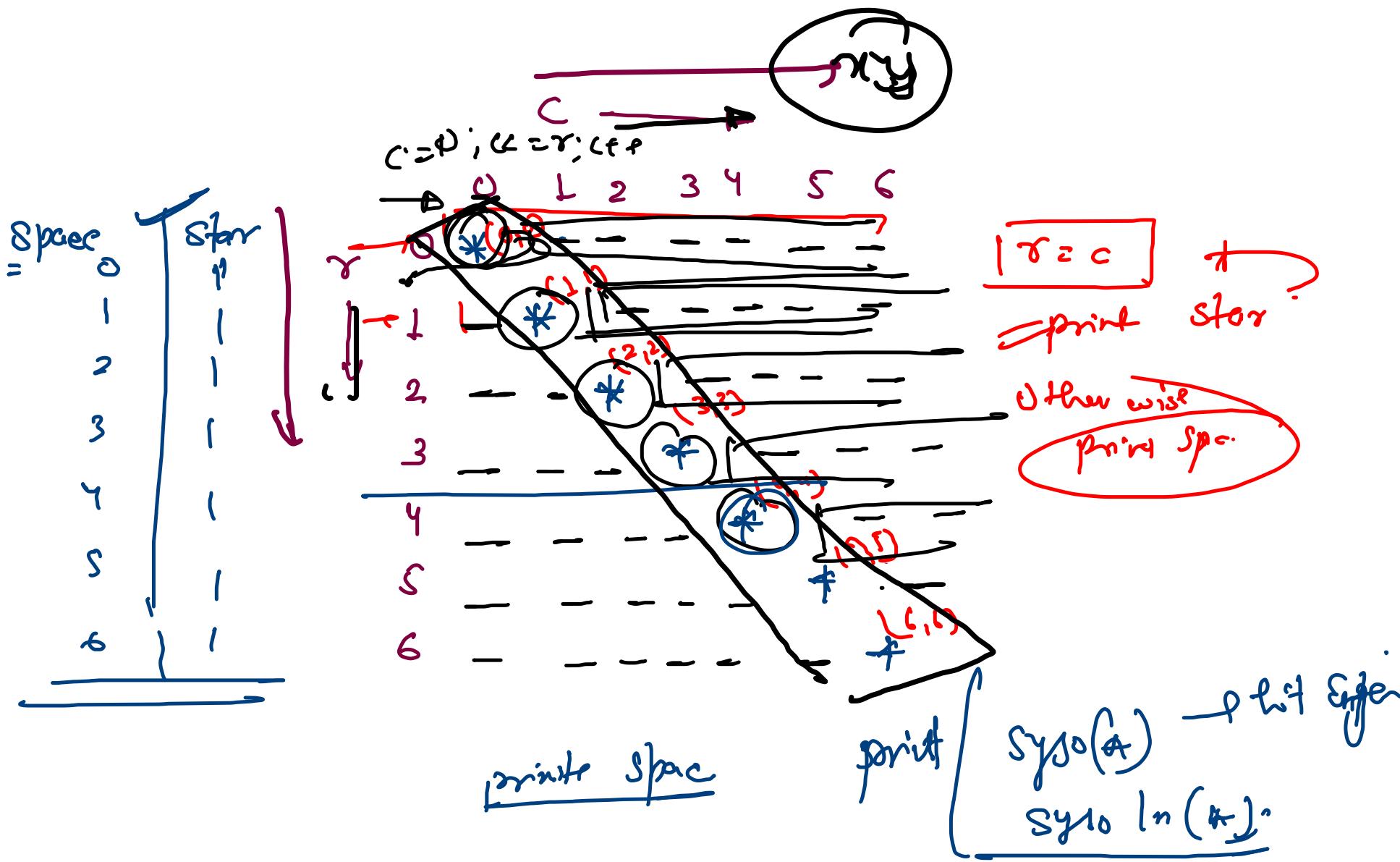
</div



$$Star = \frac{1}{2} P$$

$n=5$

$n=7$



$$r, c \\ (q, q)(\tau, c_1)$$

$\cancel{m, c}$

$$(3, 3)(\tau_2, c_2)$$

$$\frac{y - y_1}{x - x_1} = \frac{y_2 - y_1}{x_2 - x_1}$$

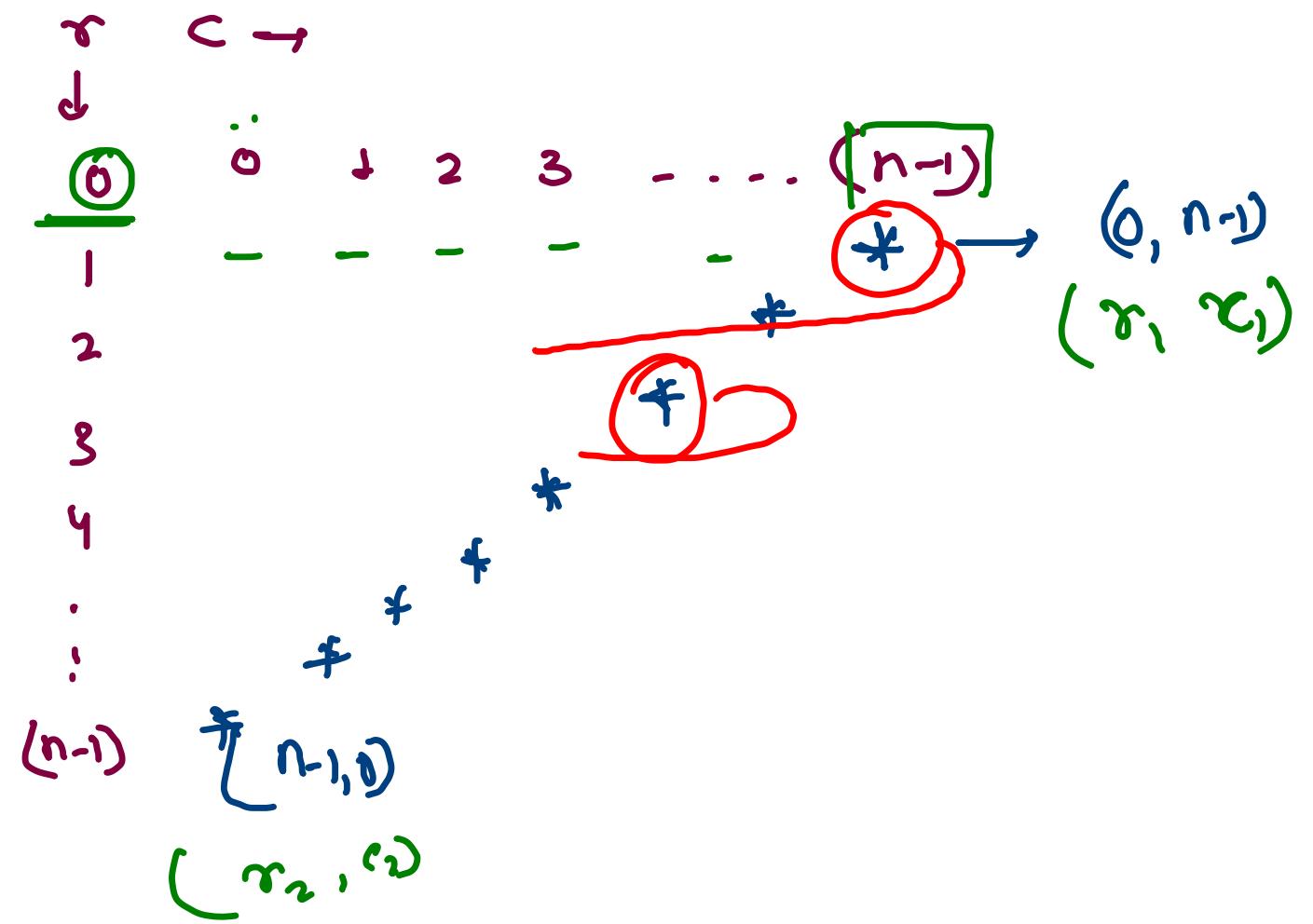
$$\frac{c - 3}{r - 3} = \frac{4 - 3}{4 - 3}$$

$$\frac{c - 3}{r - 3} = 1$$

$$c - 3 = r - 3$$

~~$\tau = c$~~

Pattern 8



$$\frac{y - y_2}{x - x_2} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\frac{c - c_2}{\gamma - \gamma_2} = \frac{c_2 - c_1}{\gamma_2 - \gamma_1}$$

$$\frac{c - 0}{\gamma - (n-1)} = \frac{0 - (n-1)}{(n-1) - 0} = -\left[\frac{n-1}{n-1}\right] = -1$$

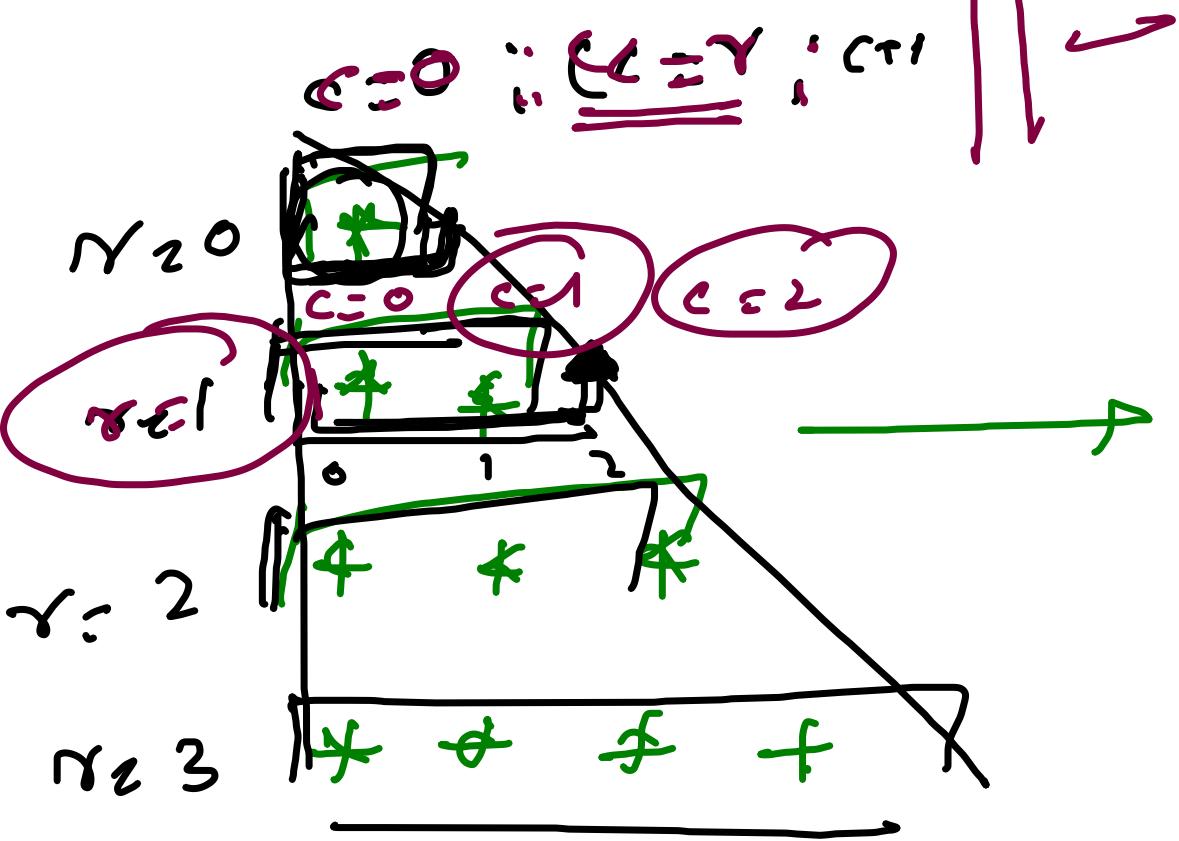
$$\frac{c}{\gamma - (n-1)} = -1$$

$$c = -\gamma + (n-1)$$

$$\boxed{\gamma + c = n-1}$$

variables - Patter

Structure - } transverse



→ variables

