

Row = 1 ,

$n=3$ $n = \text{Total No-}$
 ≤ 3

Row $\rightarrow 1$

col = 1, Col \leq

Col $\rightarrow 3$

1

2

3

4 $\leq 3 \rightarrow \text{Stop} =$

Row	1	2	3
1	-	-	-
2	-	-	-
3	-	-	-

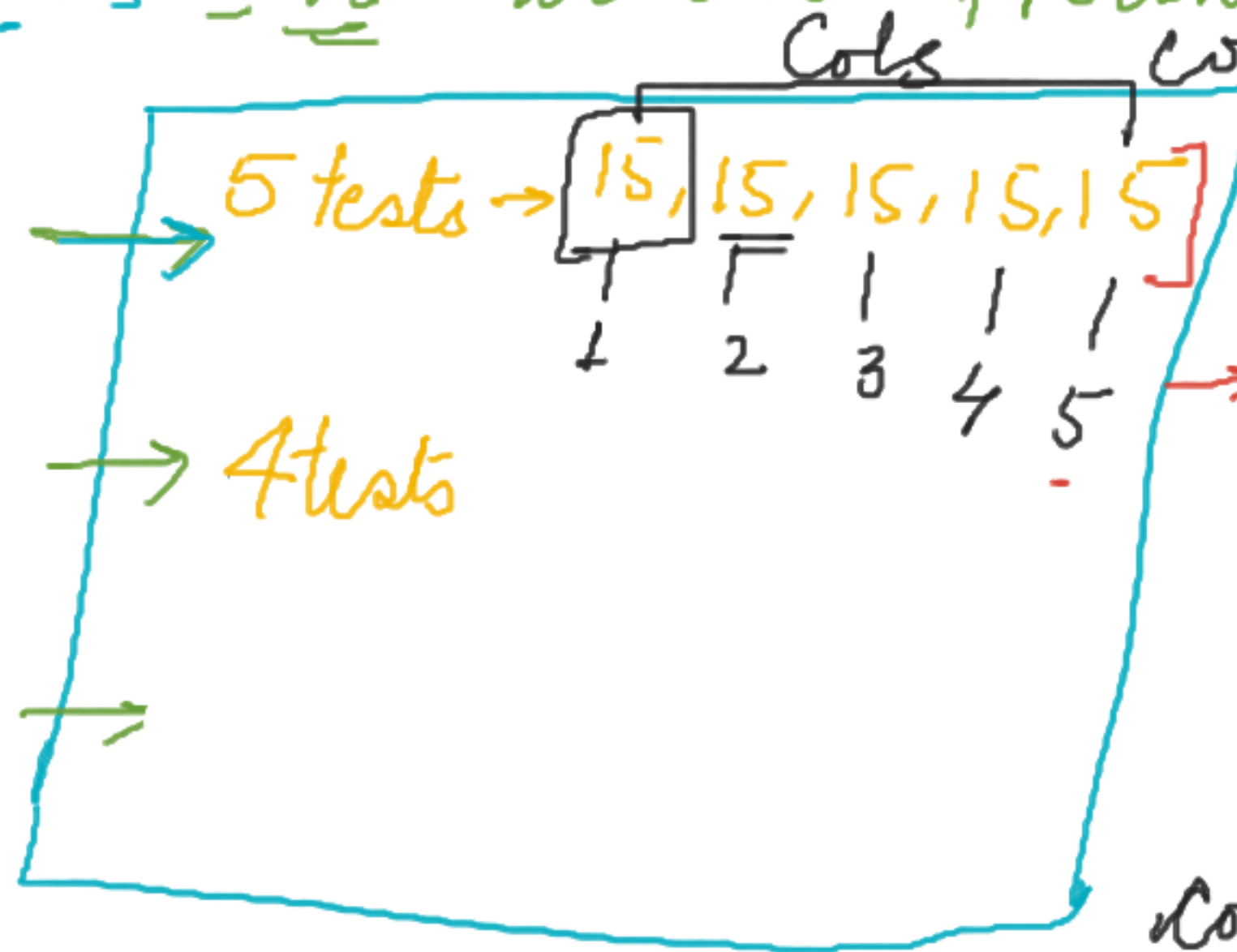
Row	times loop
1	3

→ Task 3 Rounds = n Total No. of Rounds

Q Current Row 1

Round row → 2

3



$n=3$
 \times \rightarrow stop
 $i=1$

$k=3$
 \downarrow
 time

1, $Col \leq 5$
 2, $Col \leq 4$

Col = 1,
 Row
 2 → 4
 3 → 3

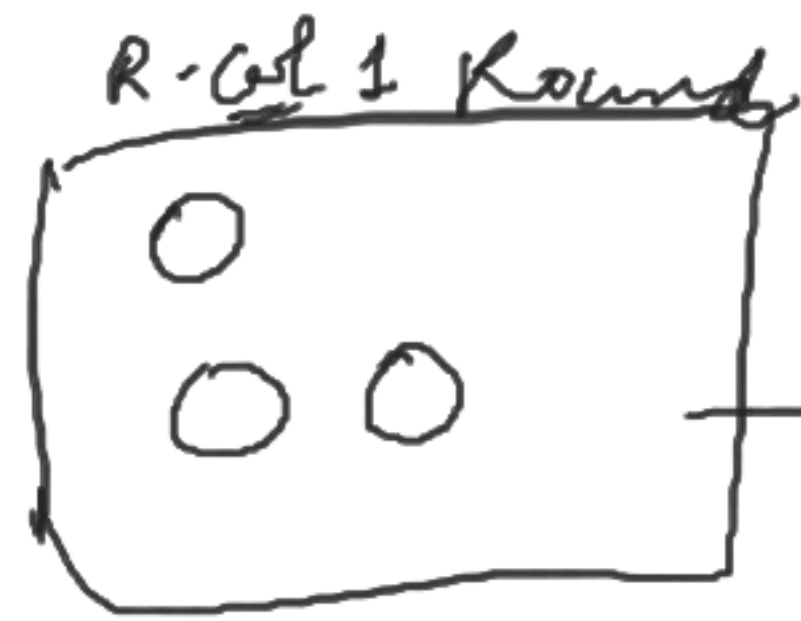
row	col (n+1) - row		
1	<u>5</u>	<u>n = 5</u>	1 * * * *
2	4	5 - 1 = 4	2 * * *
3	3	n - 1 = 4	3 * *
4	2	(n+1) - 1 = 5	4 *
5	1	(n+1) - 2 = 4	5

Col 2, Col 5 = (n+1) - i

$$(n+1) - 3 = 3$$

Row 1 Turn
Row 2

- Q →
 R-1 →



Turn

Round 1 → Round 1

1
 2 2
 3 3 3
 4 4 4 4

for (rowt; rowt <= 4; rowt++) {

for (colt; colt <= rowt;

Syso("rowt");

}

Col.
 1 2
 1 2 3
 1 2 3 4 Row

1

2

times

Col

1

2

$n = 5$

Half = $(n+1)/2$

= $(5+1)/2 = 3$

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

Loop 1 Row	Loop 2 Spaces	Loop 3 Stars
1	2	1
2	1	2
3	0	3
4	1	2
5	2	1

if
Row 1, 2, 3 \leq half (3) ✓
Row 4, 5 $>$ half ✓
else

Lower half
SP → spaces
St → star

```
int n = 5; int sp, st = 0;
```

```
for (int row = 1; row <= n; row++) {
```

```
    if (row <= half) { → upper half } → if part row = 1, 2, 3
```

```
        sp = half - row;
```

```
    } else {
```

```
        sp++;
```

```
    } for (int space = 1; space <= sp; space++)
```

```
    {
```

```
        syso(" ");
```

```
    }
```

```
    for (int star = 1; star <=           ; star++)
```

```
    {
```

```
        syso(" * ");
```

```
    }
```

```
    syso println();
```

half upper
lower half

upper
lower half

row
4, 5

① Row half
 ← (3 - row)
 space

1	2
2	1
3	0

Row <= half → if part
upper half

half row