int n = 3

1 - <= n - i ; data

row space( ) stars

1 - <=

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

row	space	stars
3 - 1	2	1
3 - 2	1	2
3 - 3	0	3

```
for(int row=1; row<=n; row++) {
    for(int sp=1; sp<=n-i; sp++) {
        cout(" ");
    }
    for(int st=1; st<=i; st++) {
        cout("*");
    }
    cout println();
}
```

int n = 3;

row	space (n-row)	star (2*row-1)
1	2	1
2	1	3
3	0	5

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

2 * row - 1

row

2 * 1 - 1 = 1

2 * 2 - 1 = 3

2 * 3 - 1 = 5

1 + 0 1.

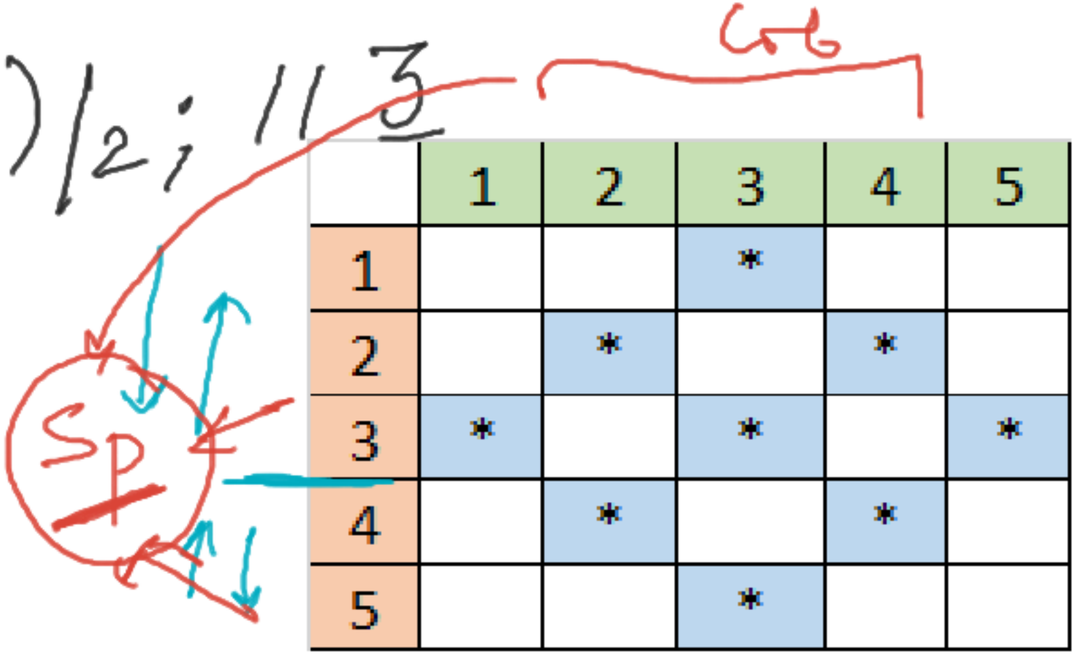
2 + 1 3.

3 + 2 5.

int n = 5 ; int half = (n+1)/2; // 3

int sp = 0, st = 0;

row	space	star
1	2 (3-1)	1
2	1 (3-2)	2
3	0 (3-3)	3
4	1	2
5	2	1




```
if (row <= half) {
    sp = half - i;
    st = row
}
```

```
for( int row=1;   row<=n ;  row++){
    if(row<=half){
       sp= half-i; st = row;
    }

    for( int space=1; space<= sp ; space++){
            Sout(" ");
    }
    for (int star=1; star<= st ; star++){
            Syso("*");
    }
}  Sout println();
```