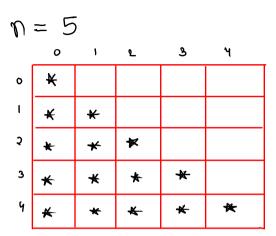
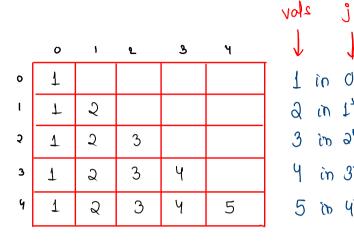
#### GKSTR17 Pattern 2





1 in oth col

2 in 1st col

3 in and col

4 in 3<sup>nd</sup> col

5 in 4th col

```
int st = 1;
for (int i=0; i<n; i++) {
    for (int j = 0; j < st; j++){
         Syso("*");
    st++;
    Sysoln();
```

```
int st = 1;
- for (int i=0; i<n; i++) {
       for (int j = 0; j < st; j++) {

Syso ((in)+"");
       st++;
       Syzoln();
```

st++;

### st=12345

(=4, (4<4)x

$$i=2, j=0 (0<3)$$
  
 $j=1 (1<3)$   
 $j=2 (2<3)$   
 $i=3 (3<3)$ 

$$j=2$$
 (2<2) ×  
 $j=0$  (0<3)  $\sim$   
 $j=1$  (1<3)  $\sim$   
 $j=2$  (2<3)  $\sim$   
 $j=3$  (3<3) ×

 $i = 0, j = 0 \ (0 < 1) \ \checkmark$ 

 $i=1, j=0 \ (0<2) \checkmark$ 

j= 1 (1<1) x

i=1 (1<2)  $\checkmark$ 

$$i=3, j=0 (0<4)$$

$$j=1 (1<4)$$

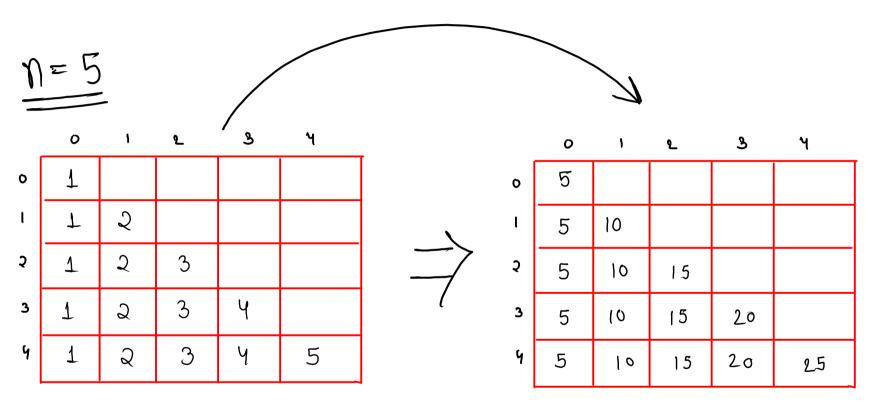
$$i=2 (2<4)$$

$$j=0$$
 (0<4)  $\sqrt{1}$ 
 $j=1$  (1<4)  $\sqrt{1}$ 
 $j=2$  (2<4)  $\sqrt{1}$ 

$$j=1$$
 (1<4)  
 $j=2$  (2<4)  
 $j=3$  (3<4)

i=4 (4<4) X

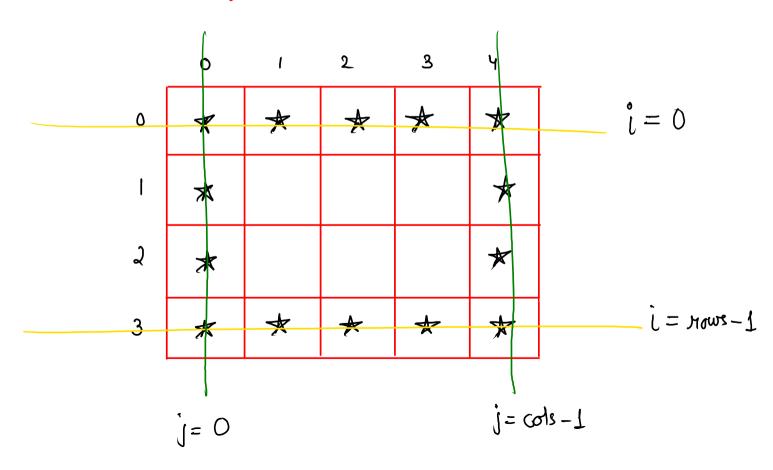
### Pattern 6 - Right triangle of 5 multiples





```
public static void main(String[] args) {
      Scanner scn = new Scanner(System.in);
      int n = scn.nextInt();
      int st = 1;
  for (int i = 0; i < n; i++) {
    for (int j = 0; j < st; j++) {
        System.out.print(5 * (j + 1) + "\t");
    }
    st++;
    System.out.println();</pre>
```

### Pattern 7 - Print a hollow m by n star rectangle.





```
public static void main(String[] args) {
       Scanner scn = new Scanner(System.in);
       int cols = scn.nextInt();
       int rows = scn.nextInt();
for (int i = 0; i < rows; i++) {
    for (int j = 0; j < cols; j++) {
        if ( i == 0 || i == rows - 1 || j == 0 || j == cols - 1 ) {
            System.out.print("*");
        } else {
            System.out.print(" ");
        }
}</pre>
              System.out.println();
```



```
Mows = 4
public static void main(String[] args) {
                                                                     i = 0, j = 0
   Scanner scn = new Scanner(System.in);
   int cols = scn.nextInt();
   int rows = scn.nextInt();
   for (int i = 0; i < rows; i++) {
      for (int j = 0; j < cols; j++) {
         if ( i == 0 || i == rows - 1 || j == 0 || j == cols - 1 ) {
    System.out.print("*");
                                                                      i=1, j=0
               System.out.print(" ");
       System.out.println();
      J \rightarrow \hat{c} = 0
                                            your = y
       1- rwor = 1 - IT
                                             (ds = 4
      mor -
```

cols = 4

## Conditions:

$$i = 0$$
:- first How  
 $i = nows - 1$ :- last How  
 $j = 0$ :- first col  
 $j = col - 1$ :- last col

```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   int cols = scn.nextInt();
   int rows = scn.nextInt();
   for (int i = 0; i < rows; i++) {
       for (int j = 0; j < cols; j++) {
           if ( i == rows - 1 || ////// || j == cols - 1 ) {
               System.out.print("*");
         } else {
               System.out.print(" ");
       System.out.println();
     (==0
    1 = = Now - 1
```

# Pattern 8 - Print a hollow square without top

```
public static void main(String[] args) {
       Scanner scn = new Scanner(System.in);
       int n = scn.nextInt();
   for (int i = 0; i < n; i++) {
    for (int j = 0; j < n; j++) {
        if ( i == n - 1 || j == 0 || j == n - 1 ) {
            System.out.print("*");
        } else {
            System.out.print(" ");
        }
}</pre>
             System.out.println();
```

#### GKSTR24 Pattern\_7\_Pyramid

```
int st = 1;
int sp = n-1;

for (int i=0; i < n; i++) f

for (int j=0; j < sp; j++) f

Syso ("");
         for ( int j=0; j < st; j++){

Syso ("*_");
         Sysodn();
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int st = 1;
    int sp = n - 1;
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < sp; j++) {
            System.out.print(" ");
        for (int j = 0; j < st; j++) {
            System.out.print("* ");
        sp--;
        st++;
        System.out.println();
```

#### Hw\_Print Inverted triangle

```
int st = ni

int sp = 0i
for (int i = 0) ix nows; i+1)
   for (int j= 0; j< sp; j++){
       Syso (" ");
   for (int j= 0; j<st; j++) }
```

Syso("\*"))