

$n = 12345$, $int temp = n$
 \downarrow
 reverse
 $int ans = 0$
 $while(n > 0)$
 $\{$
 $int rem = n \% 10$
 $ans = ans * 10 + rem$
 $n = n / 10$
 $\}$
 4
 $sysout(ans)$

12345
 $ans = 0$
 $rem = 5$
 $ans = 0 * 10 + 5 = 5$
 $n = 1234$
 $rem = 4$
 $ans = 5 * 10 + 4 = 54$
 $n = 123$
 $rem = 3$
 $ans = 54 * 10 + 3 = 543$
 $n = 12$
 $rem = 2$
 $ans = 543 * 10 + 2 = 5432$
 $n = 1$
 $rem = 1$
 $ans = 5432 * 10 + 1 = 54321$

Patterns

$i = rows$
 $j = col$
 $n = 5$
 $n = 4$
 $i = 1, 2, 3, 4, 5$
 $j = 1, 2, 3, 4, 5$
 $for (int i = 1; i <= n; i++)$
 $\{$
 $for (int j = 1; j <= n; j++)$
 $\{$
 $sysout(i + " " + j);$
 $\}$
 $sysout("\n");$
 $\}$

Que
 $n = 5$
 $i = 1, j = 1$
 $i = 2, j = 2$
 $i = 3, j = 3$
 $i = 4, j = 4$
 $i = 5, j = 5$
 $for (int row = 1; row <= n; row++)$
 $\{$
 $for (int col = 1; col <= row; col++)$
 $\{$
 $sysout("*");$
 $\}$
 $sysout("\n");$
 $\}$

```
public class Solution {
```

```
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int n = scn.nextInt();
```

```
        for(int row=1; row<=n; row++){
            for(int col=1; col<=row; col++){
                System.out.print("* ");
            }
            System.out.println();
        }
```

```
    } /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class
```

$n=4$

$row = 1, 2, 3, 4$

$col = 1, 2, 3, 4$
 5

```

    *
    * *
    * * *
    * * * *
  
```

```

    *
    * *
    * * *
    * * * *
  
```

$col \leq row$

```

    *
    * *
    * * *
    * * * *
    * * * * *
  
```

y

```
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int n = scn.nextInt();
```

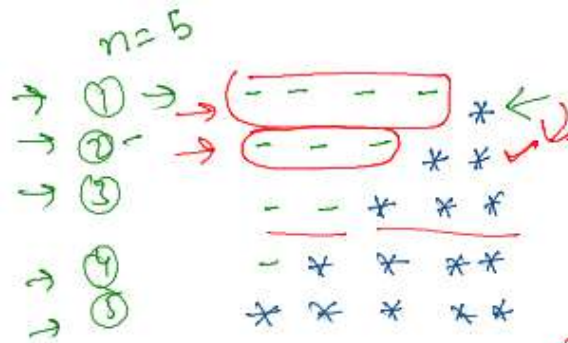
```
        for(int row=1; row<=n; row++){
            int val=1;
            for(int col=1; col<=row; col++){
                System.out.print(val+" ");
                val++;
            }
            System.out.println();
        }
```

```
    } /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your clas
```

$row = 1, 2, 3, 4, 5$
 $val = 1, 5$
 $col = 1, 5$

```

    1
    1 2
    1 2 3
    1 2 3 4
  
```



$n=5-2$
 $\text{int nst} = 1$ ✓ 2 ✓
 $\text{int nsp} = \underline{n-1}$ $n-2$
 ③

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

for (int col=1; col<=nsp; col++)
 syso(" ");

space

for (int col=1; col<=nst; col++)
 syso("*");

syso(" ");

nst++;
 nsp--;

```
public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int n = scn.nextInt();

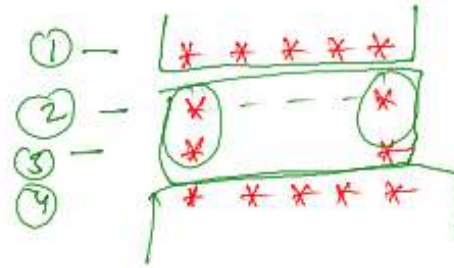
        int nst = 1;
        int nsp = n-1;

        for(int row =1; row<=n; row++){
            for(int col =1; col<=nsp; col++){
                System.out.print(" ");
            }
            for(int col =1; col<=nst; col++){
                System.out.print("*");
            }
            nst++;
            nsp--;
            System.out.println();
        }
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class sh
    }

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int n = scn.nextInt();

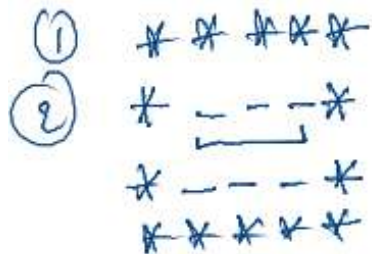
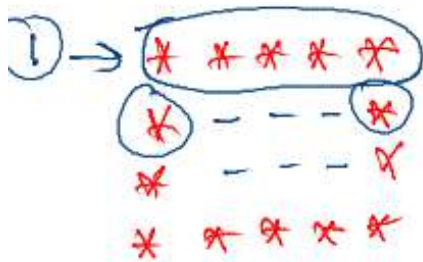
        for(int row=1; row<=n; row++){
            int val=1;
            for(int col=1; col<=row; col++){
                System.out.print(val+5+" ");
                val++;
            }
            System.out.println();
        }
        /* Enter your code here. Read input from STDIN. Print output to STDOUT.
    }
```

Q. $m \leftarrow 5$ * $n \rightarrow 4$ $n=5$ $nsp = n-2 = 3$
 not nsp



for (i=1 to n) {
 if (i==1 || i==n) {
 for (j=1 to m) {
 sysout("*");
 }
 }
 else {
 sysout("*");
 for (n=2 to m-1) {
 sysout(" ");
 }
 sysout("*");
 }
 sysout("\n");
}

$m=5$ $nsp=3$ ($m-2$)

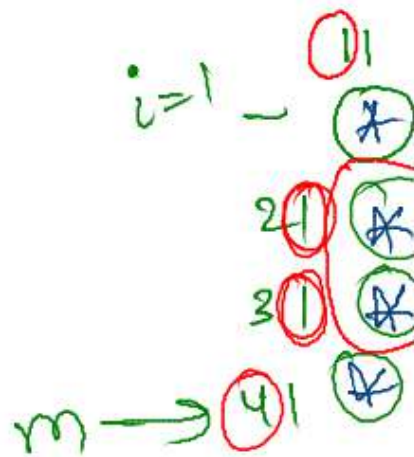


```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int m = scn.nextInt(); 5
    int n = scn.nextInt(); 4
    int nsp = m-2; nsp = 3
    for (int row = 1; row <= n; row++) {
        if (row == 1 || row == n) {
            for (int col = 1; col <= m; col++) {
                System.out.print("*");
            }
        } else {
            System.out.print("*"); ✓
            // System.out.println(nsp);
            for (int col = 1; col <= nsp; col++) {
                System.out.print(" "); ✓
            }
            System.out.print("*"); ✓
        }
        System.out.println();
    }
}
```

row = 1 2 3 4 5

row = n
 n = 4

/* Enter your code here. Read input from STDIN. Print output to STDOUT. Your code should be written here. */



```

public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    // int m = scn.nextInt();
    int n = scn.nextInt();
    // int nsp = m-2;
    for(int row = 1; row<=n; row++){
        for(int col=1; col<=n; col++){
            if( row==n || col==1 || col==n){
                System.out.print("*");
            }else{
                System.out.print(" ");
            }
        }
        System.out.println();
    }
}
/* Enter your code here. Read input from STDIN. Print output to STDOUT.

```

$i==1$ || $i==m$ ||

$j==n$

Handwritten notes: $row=2$, $col=2$

```

* * *
* - - *
* - - *
* * * *

```

```

public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int m = scn.nextInt();
    int n = scn.nextInt();
    int nsp = m-2;
    for(int row = 1; row<=n; row++){
        for(int col=1; col<=m; col++){
            if( row==n || col==1 || col==n){
                System.out.print("*");
            }else{
                System.out.print(" ");
            }
        }
        System.out.println();
    }
}
/* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class s

```

