Pattern revision

Que1 ladder

n = 5

	0	1	2	3	4
0	*	*	*	*	*
1	*				*
2	*	*	*	*	*
3	*				*
4	*	*	*	*	*

$r = 0, ~~\$~~4$

$c = 0, 4$

(a) $i = 0$, (b) $i = n-1$

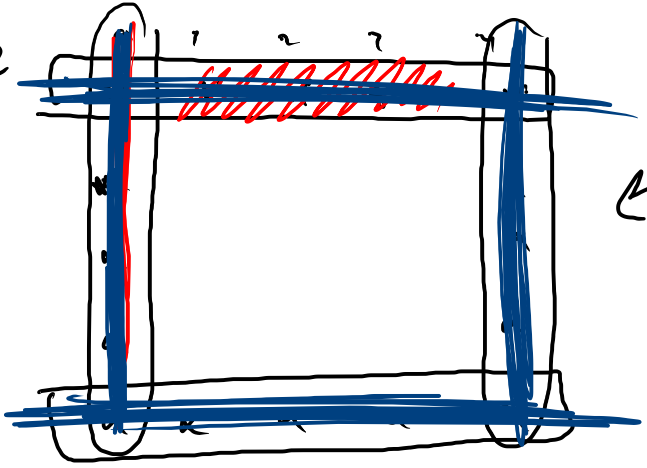
(c) $j = 0$, (d) $j = n-1$

step1

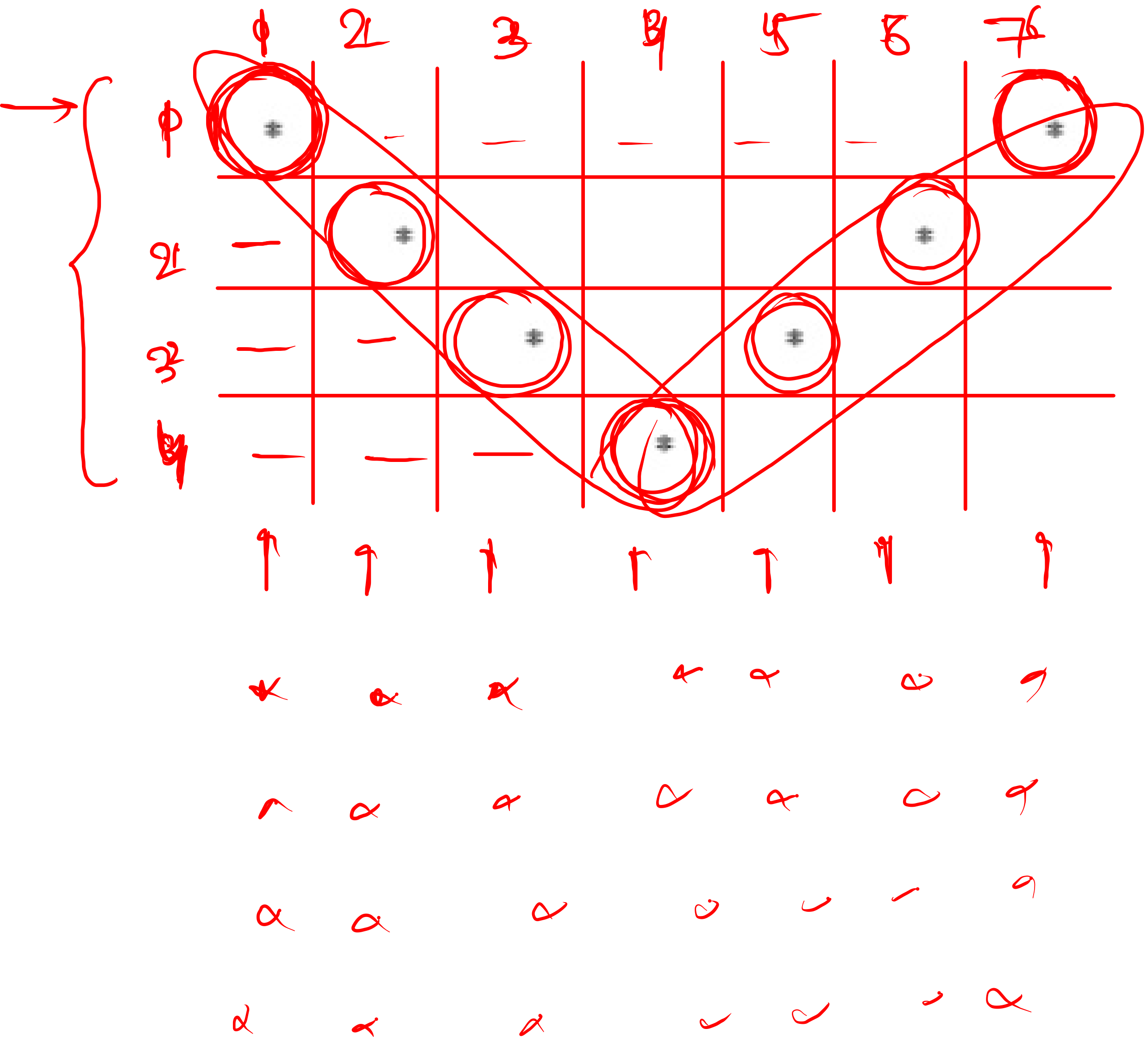
n=5

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

Step2



HW_Print V Pattern



	1	2	3	4	5	6	7
1	*	_	_	_	_	_	*
2	_	*				*	
3	_	_	*		*		
4	_	_	_	*			

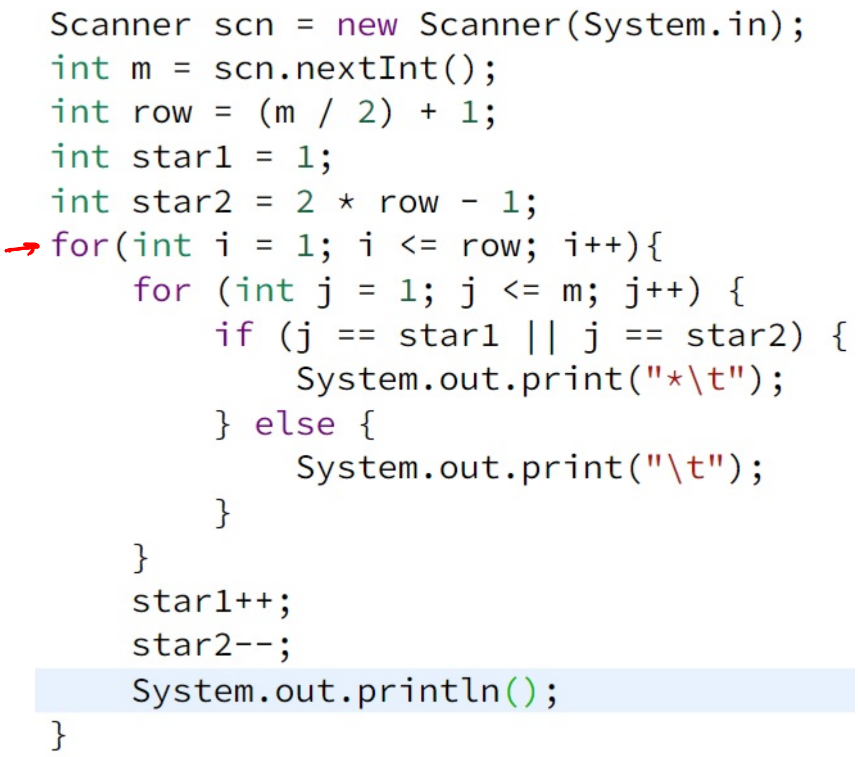
$\boxed{m = 7}$

$$\underline{row = (m/2)+1} \quad // 4$$

$$\left.\begin{array}{l} star1 = 1 \\ star2 = 7 \end{array}\right\}$$

→ V pattern

m=9



```
Scanner scn = new Scanner(System.in);
int m = scn.nextInt();
int row = (m / 2) + 1;
int star1 = 1;
int star2 = 2 * row - 1;
for(int i = 1; i <= row; i++){
    for (int j = 1; j <= m; j++) {
        if (j == star1 || j == star2) {
            System.out.print("*\t");
        } else {
            System.out.print("\t");
        }
    }
    star1++;
    star2--;
    System.out.println();
}
```

row = 5

star1 = ~~1~~ ~~2~~ ~~3~~ ~~4~~ 5

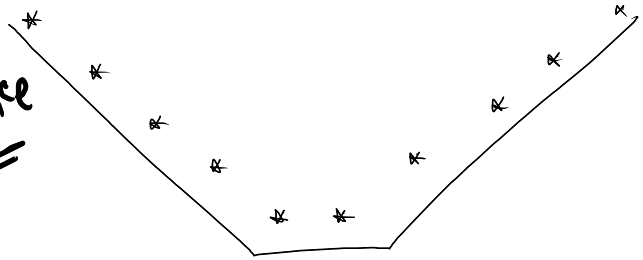
star2 = ~~9~~ ~~8~~ ~~7~~ ~~6~~ 5

j

i

	1	2	3	4	5	6	7	8	9
1	★								★
2		★						★	
3			★				★		
4				★		★			
5					★				

mistake



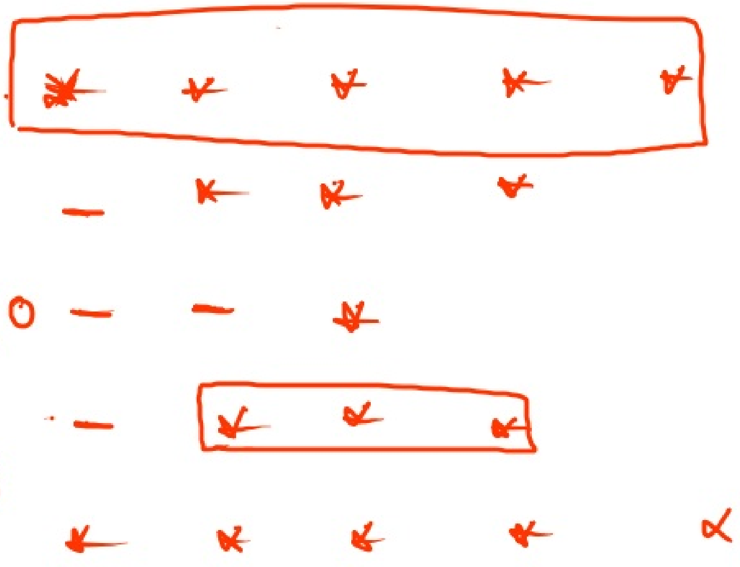
HW_Print Dumroo Pattern

Code

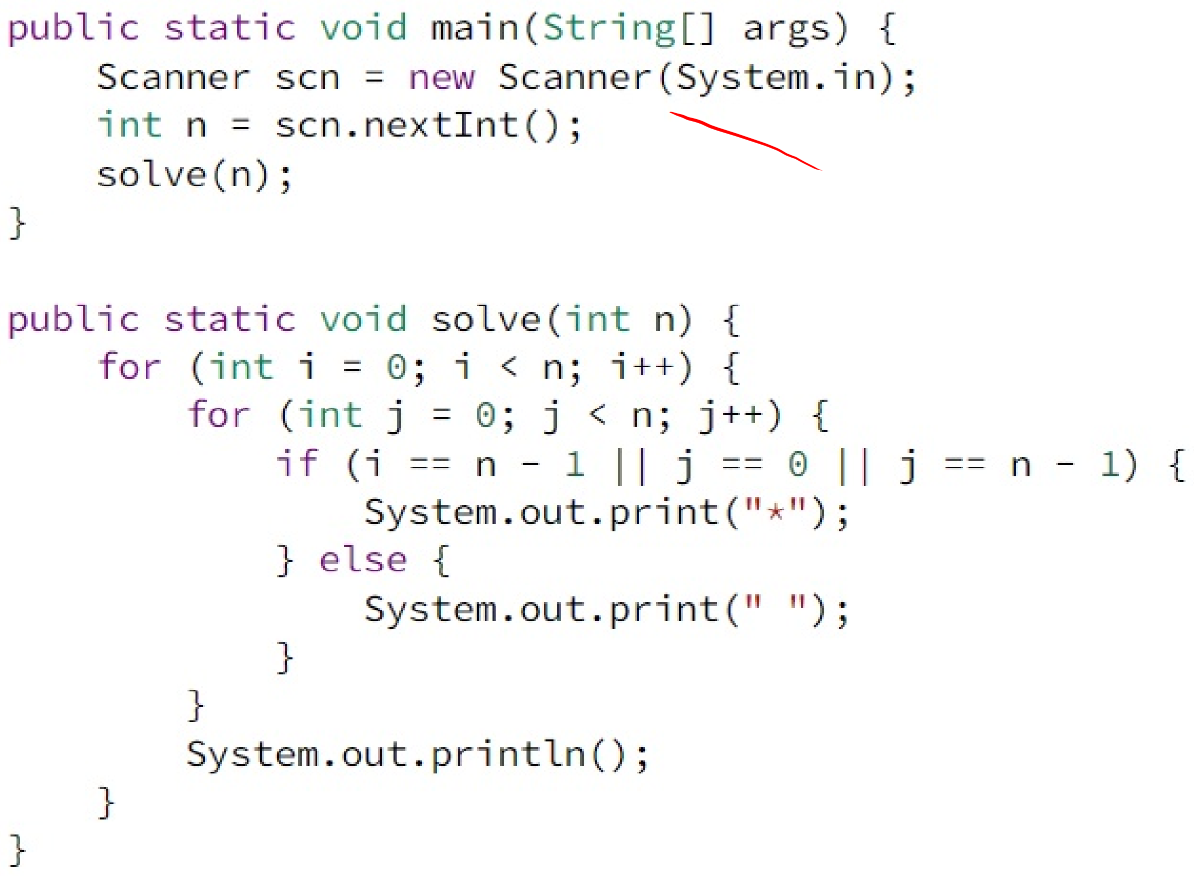
```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    int nst = n;
    int nsp = 0;
    for(int i = 1; i <= n; i++){
        for(int j = 1; j <= nsp; j++){
            System.out.print("\t");
        }

        for(int j = 1; j <= nst; j++){
            System.out.print("*\t");
        }

        if(i <= n / 2){
            nst -= 2;
            nsp++;
        } else {
            nst += 2;
            nsp--;
        }

        System.out.println();
    }
}
```

0, 1, 2, 1, 0

5, 3, 1, 3, 5

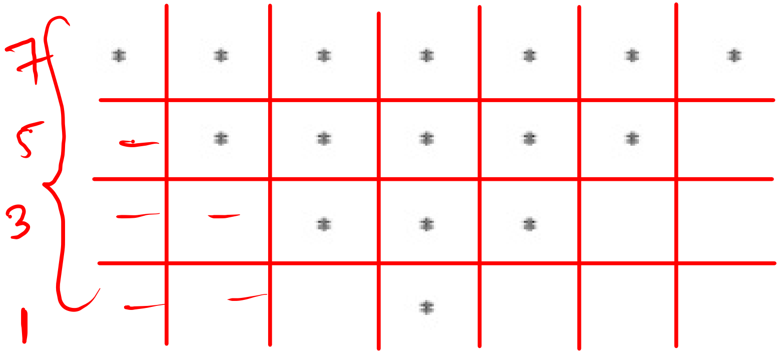


Ques Square without top



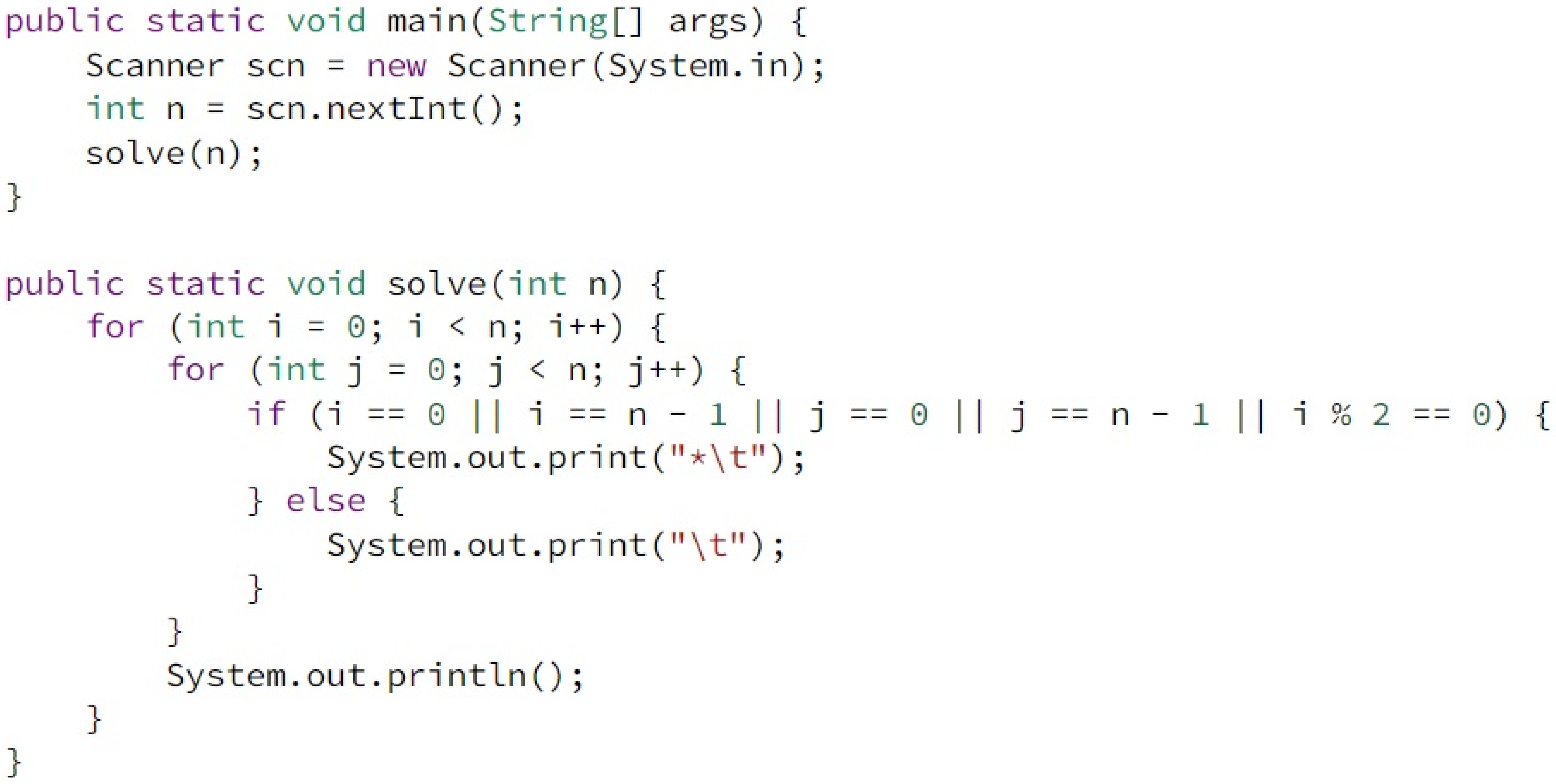
```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    solve(n);
}

public static void solve(int n) {
    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(" ");
            }
        }
        System.out.println();
    }
}
```

Hw_Print Inverted triangle



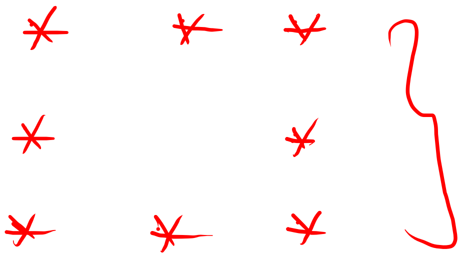
```
m=7

~~n=4~~ row = (m/2)+1 ;
int st = m;
int sp = 0;
for (int i=0; i< ~~n~~ row; i++) {
    for (int j=0; j<sp; j++){
        Syso ("  ");
    }
    for (int j=0; j<st; j++){
        Syso ("*");
    }
    sp++;
    st -=2;
    Sysoln();
}
```

Ques ladder code

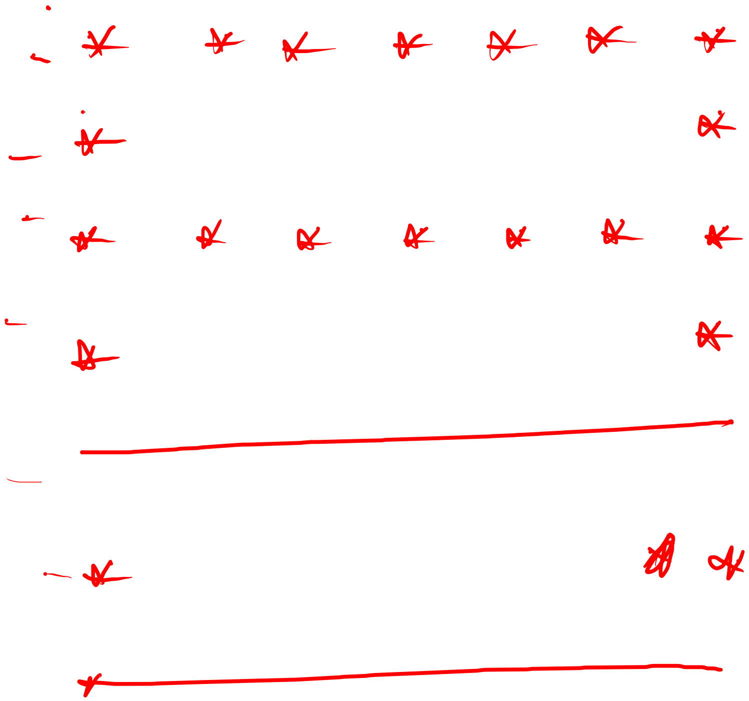


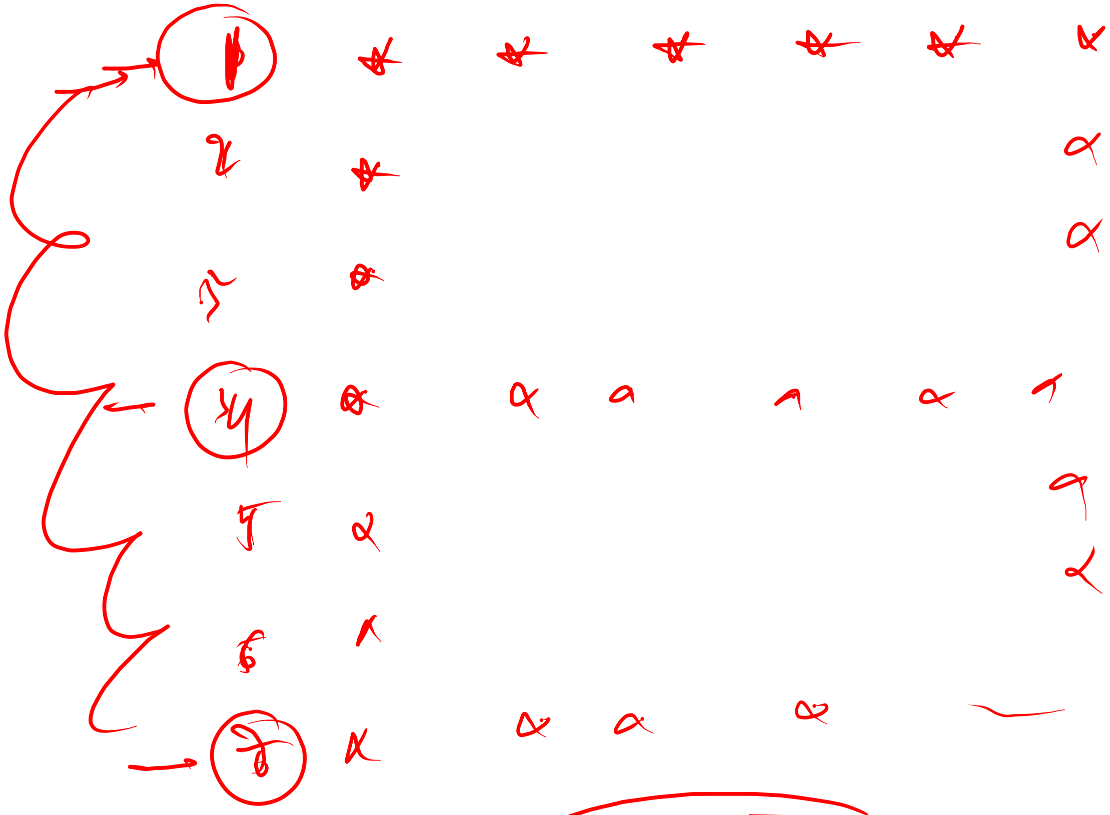
```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    solve(n);
}

public static void solve(int n) {
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < n; j++) {
            if (i == 0 || i == n - 1 || j == 0 || j == n - 1 || i % 2 == 0) {
                System.out.print("*\t");
            } else {
                System.out.print("\t");
            }
        }
        System.out.println();
    }
}
```

n=3



n=7





$i \% 3 == 1$

$1 \% 3 == 1$

4 % [illegible]