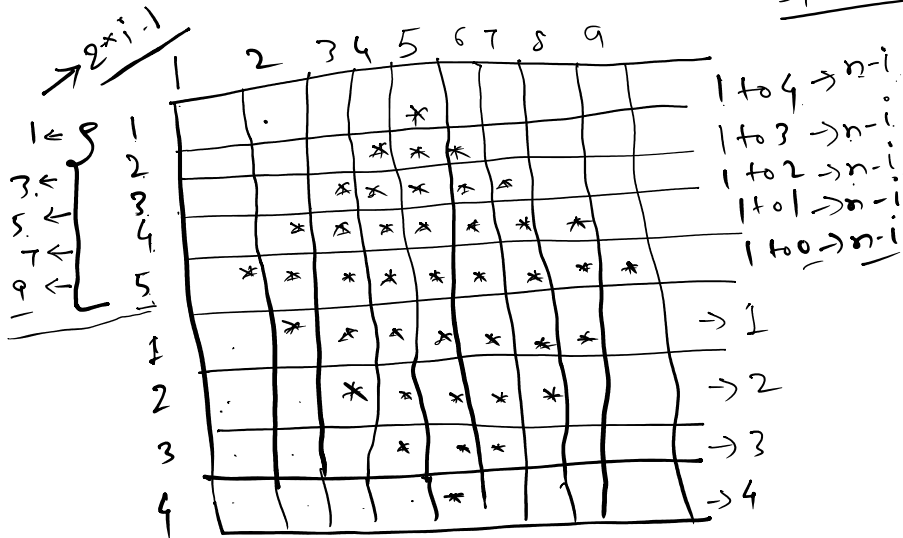
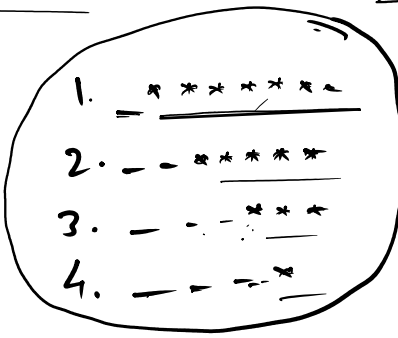


Space -



```
for(int i=1; i<=n; i++){
    for(int j=1; j<=n-i; j++){
        S.o.p(" ");
    }
    for(int k=1; k<=2*i-1; k++){
        S.o.p("*");
    }
}
```

```
for(int i=1; i<=n-1; i++){
    for(int j=1; j<=i; j++){
        S.o.p(" ");
    }
    for(int k=1; k<=2*(n-i)-1; k++){
```



2x4=8  
2\*(5-1)

1 → 7 →  $2*(n-i)-1$

2 → 5 →  $2*(5-2)-1$

3 → 3 →  $2*(5-3)-1$

4 → 1

S.o.p("\*");

}

S.o.p("\n");

}  
S.o p/n( ) ;  
{

# Functions Declaration

return-type function-name ( ) {

}

int sum ( ) {

}

Non-parameterized  
↳ Where it does not take any parameter from user

int sum ( ) {

int a = 100;

int b = 200;

return a + b;

}

void print1 ( ) {

s.o.pln("Hello");

... ("Kotes");

```

S.o.pln(
S.o.pln("Geekster");
S.o.pln("Hi");
}

```

```

void print2() {
S.o.pln("Rahul");
S.o.pln("Geekster");
}

```

→ non-parameterized function.

```

p.s.v.m(String args[]) {

```

↓ main method → It is first method to be executed.

```

    print2();

```

Parameterized → which accepts input while calling.

```
void printName(String name) {
    String appendedName = name + "kumar";
    System.out.println(appendedName);
}
```

"Rahul"  
 "Jatin"  
 "Jay"  
 "Aditya"

Example

```

9 public class Main
10 {
11
12     static void printName(String fname, String lname){
13         String aname = fname+" "+lname;
14         System.out.println(aname);
15     }
16     public static void main(String[] args) {
17         // System.out.println("Hello World");
18         // printName("Rahul", "Sharma");
19         // printName("Jatin", "Kumar");
20         // printName("Aditya", "Kumar");
21         int sumreturned=sum(70,50);
22         int prod = product(70,50);
23         System.out.println(prod);
24     }
25
26     static int sum(int a, int b){
27         int c = a+b;
28         return c;
29     }
30
31     static int product(int a, int b){
32         int c = a*b;//3500
33         return c;
34     }
35
36 }

```

3500

# Find Sum using a function

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         /* Enter your code here. Read input from STDIN. Print output to S1
8         Scanner sc = new Scanner(System.in);
9         int n = sc.nextInt();//4
10        for(int i=1;i<=n;i++){
11            int x= sc.nextInt();
12            int y = sc.nextInt();
13            findSum(x,y);
14        }
15    }
16    static void findSum(int a, int b){
17        int c = a+b;
18        System.out.println(c);
19    }
20 }
```