

```
row  
col  
┌ S.o.print("*")  
└ S.o.pln( );
```

```
|| ||
```

Output of the program :

1  
2  
3  
4  
5

12345

Trace

```
int y = 0
int x = 0
int count = 1
```

iteration	x	y
1	1	0
2	3	1
3	6	3
4	10	5

```
while (count <= 4)
{
    x += count;
    y = x / 2;
    count++;
}
```

```
if (x % 2 == 0) {  
    s.o.p("X is even");  
}  
s.op("Done");
```

---

```
if (x % 2 == 0) {  
    s.o.p("Even");  
}  
else {  
    s.o.p("Odd");  
}  
s.op("Done");
```

```
if (x % 2 == 0) {  
}  
if (x % 2 != 0) {  
}
```

```
int count  
for(count=0 ; count <= 10 ; count++) {
```

```
}  
// use count variable
```

Swap:

```
int x;
```

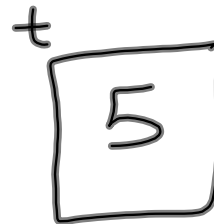
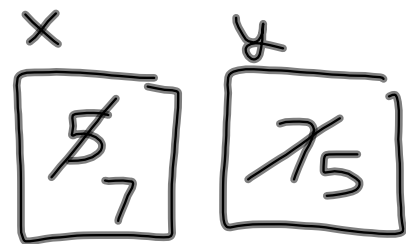
```
int y;
```

```
...
```

```
int t = x;
```

```
x = y;
```

```
y = t;
```



```
int t = y;  
y = x;  
x = t;
```

%f

%.2f



%20.2f  
└──  
20 spaces

%-20.2f  
↑  
left justify

count++	v.	++count
count=5; s.o.pln(count++); s.o.pln(count);		count=5, s.o.pln(++count); s.o.pln(count);
5 6		6 6

---

3+4      count=5  
            count++

~~count=count++;~~

```
while ((++count) < 10) {  
    don't do this  
}
```



?:

condition? (true value) : (false value);

$x = (x < 0 ? -x : x);$

---

```
if(x < 0){  
    x = -x;  
}
```

```
if ( x < 10) {  
    if (y < 10)  
        s.println("Here");  
    else  
        s.o.println("Not Here");  
}
```

Largest : while/if nesting  
Sum/Avg

```
int count = 1
while (count <= number)
    S.o.pln(count);
    count++;
}
count = number - 1;
while (count >= 1) {
    S.o.pln(count);
    count--;
}
```