Switch Case:

readability

```
if ( expression ) {
    block
} else if (expression) {
    block
} else {
    =
}
```

(i==0 || j==0 | i==4 . . . . .)

1) readability
2) Constant value
3) expression :
   1) integer
   2) string

Structure

```
switch ( value ) {
    case value1 :
        if
        break;
    case value2 :
    else if
        break;
    default :
    else
}
```

exp → true/false

```
if {
} else if {
} else {
}
```

value = "sai"

```
case "sai":
    =
case "cat":
    =
case "jaswanth"
    =
default :
    =
```

Break, Continue in loops:

- for loop
- while loop
- do-while

iteration	i value	
1st	0	i++ → 1
2nd →	1	(skip) i++ → 2
3 →	2	i+1
	⋮	
10	10	
11		

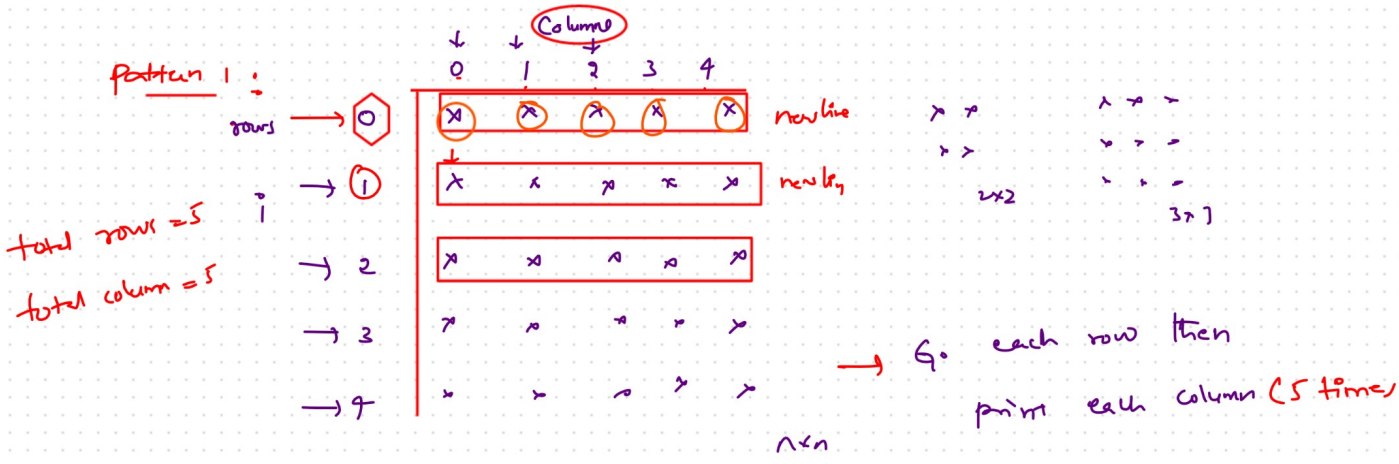
Break : makes controller come out of the loop immediately

Continue : makes controller skip to the next iteration

Nested loop: loop inside a loop, it can be n loops (limitless), but a recommend way use max of 3 loops

patterns: build patterns based on nested loops

pattern 1:



→ 5 each row then print each column (5 times)

nxn

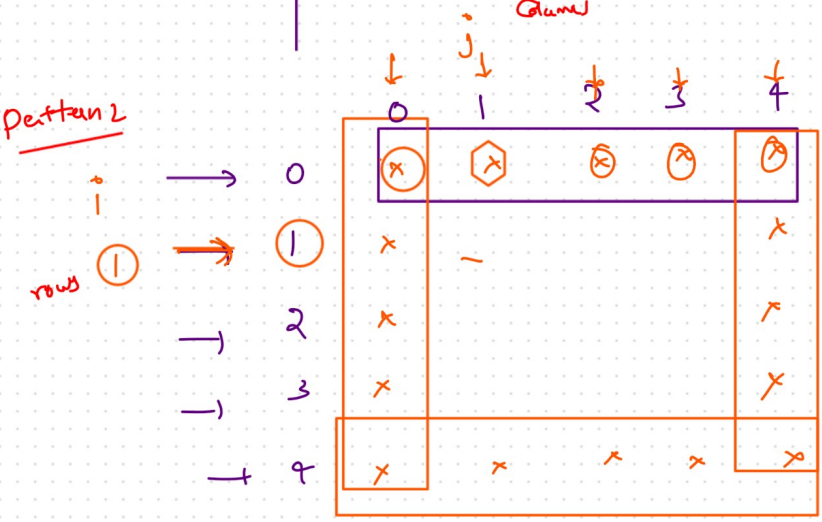
line (row)	Colum
0	All (5 times)
1	All (5 times)

for loop ← 0, 1, 2, 3, 4 - go each & every row

on each row → loop (0 — 4) 5 times i will print

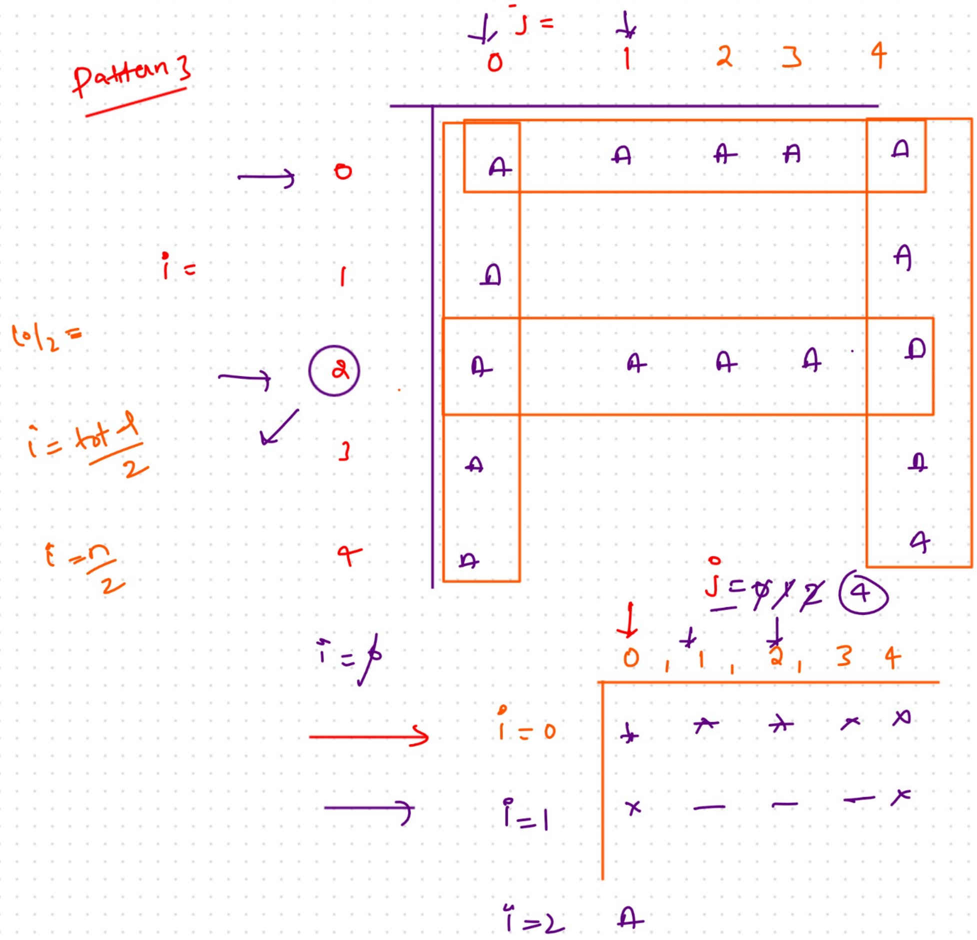
i=0, j=0 j=4 i=4

pattern 2



line (rows)	no of times
0	All (*)
1	

Pattern 3



1	1	T
1	0	T
0	1	T
0	0	F

i == 0 || j == 0 ||

j = n-1 || i == n/2

2 == 4 F   1 == 2 F

4 == 4