

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

$n=4$ int row=n, col=n;

```

{
  for (int i=1; i<=row; i++)
  {
    for (int j=1; j<=col; j++)
    {
      cout << "*" ;
    }
    cout << endl;
  }
}

```

int n; cin >> n;

```

int i=1;
while (i<=n)
{
  int j=1;
  while (j<=n)
  {
    cout << "*";
    j++;
  }
  cout << endl;
  i++;
}

```

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

printing no
num

```

for (int i=1; i<=n; i++)
{
    int val = i;
    for (int j=1; j<=n; j++)
    {
        cout << val;
    }
    cout << endl;
}

```

```

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

```

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

val = n
n--;

```
for (i=1; i ≤ n; i++)
{
    if (val = n; )
        for (int j; j ≤ n; j++)
        {
            cout << val;
            val--;
        }
    cout << endl;
}
```

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

① ②
 1 1 2 3 4
 2 1 2 3 4

```

for (int i=1; i<=n; i++)
{
  int val=1;
  for (int j=1; j<=n; j++)
  {
    if (i>j)
    {
      cout << val;
      val++;
    }
  }
  cout << endl;
}

```

①

1

2

3

②

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

val

1 2

1 2

1 2

1 2

1 2

1 2

1 2 3

	1	2	3	4
1	1			
2	2	3		
3	3	4	5	
4	4	5	6	7

Start with row
 $val =$
 $val = i;$
 $val++;$

```

for (int i=1; i<=n; i++)
{
    int val=i;
    for (int j=1; j<=n; j++)
    {
        if (i>j)
        {
            cout << val;
            val++;
        }
    }
    cout << endl;
}

```

i	j	val
1	1 2 3 4 5	1 2
2	1 2 3 4 5	1 2 3
3	1 2 3 4 5	1 2 3 4 5
4	1 2 3 4 5	1 2 3 4 5
	1	
	2 3	
	3 4 5	
	4 5 6 7	

1
2 3
4 5 6
7 8 9 10
8

rough
code

```
int val = 1;  
for (i = 1; i ≤ n; i++)  
{  
    for (j = 1; j ≤ n; j++)
```

```
{  
    if (i > j)  
    {  
        cout << val;  
        val++;  
    }  
}
```

```
    }  
    cout << endl;  
}
```

A	B	C	D
A	B	C	D
A	B	C	D
A	B	C	D

```
for (i = 1; i ≤ n; i++)
```

```
{ char ch = 'A'
```

```
  for (int j = p; j ≤ n; j++)
```

```
  { cout << ch  
    ch++;
```

```
  }  
  cout << endl;
```

```
}
```

A B C D
 B C D E
 C D E F
 D E F G

start with
 'A' + i - 1

```
for (int i = 1; i <= n; i++)
{
  char ch = 'A' + i - 1;
  for (int j = 1; j <= n; j++)
  {
    cout < ch;
    ch++;
  }
  cout << endl;
}
```

(i)	(j)	(ch)
1	A B C D	A B C D E
2	A B C D	B C D E F
3	A B C D	C D E F G
4	A B C D	D E F G H

A B C D
 B C D E
 C D E F
 D E F G

E
D F
C D E
B C D E
A B C D E

starting
char.

'A' + (n + 1) - i

~~A + n - i~~

A + n - i

i 1 2 3

E
D
C

```
for (1 to N)
{
    ch = 'A' + n - i
    for (1 to N)
```

if (i > j)

{ cout << ch;

ch++;

increase ch by 1

} }

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

val = n
n--;

```
for (i=1; i ≤ n; i++)
{
    if (val == n)
        for (int j; j ≤ n; j++)
        {
            cout << val;
            val--;
        }
    cout << endl;
}
```

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

printing no
num

```

for (int i=1; i<=n; i++)
{
    int val = i;
    for (int j=1; j<=n; j++)
    {
        cout << val;
    }
    cout << endl;
}

```

```

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

```