

Day-06 [25/09/2023]

Date
Page

Pattern

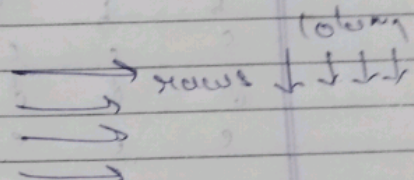
First Pattern: Rectangle:

① * * * * *
* * * * *
* * * * *
* * * * *
* * * * *

```
for (j = 1; j ≤ 5; j = j + 1) {  
    for (i = 1; i ≤ 5; i = i + 1) {  
        cout << " * " << " ";  
    }  
    cout << endl;  
}
```

Steps

- ① Row = 1
- 2 Row = 5
- 3 Print * 5 times
- 4 Row = Row + 1



②

1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5

```
for (row = 1; row ≤ 5; row++) {  
    for (col = 1; col ≤ 5; col++) {  
        cout << row << " ";  
    }  
    cout << endl;  
}
```

③

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

```
for (row = 1; row ≤ 5; row++) {  
    for (col = 1; col ≤ 5; col++) {  
        cout << col << " ";  
    }  
    cout << endl;  
}
```


5 4 3 2 1
 5 4 3 2 1
 5 4 3 2 1
 5 4 3 2 1
 5 4 3 2 1

```

for (row = 1; row <= 5; row++) {
  for (col = 5; col >= 1; col--)
    cout << "5" << " ";
  cout << endl;
}

```

a a a a
 b b b b
 c c c c
 d d d d
 e e e e

```

for (row = 1; row <= 5; row++) {
  char name = 'a' + row - 1;
  for (col = 1; col <= 5; col++)
    cout << name << " ";
  cout << endl;
}

```

a a a a
 b b b b
 c c c c
 d d d d
 e e e e

```

for (row = 1; row <= 5; row++) {
  for (char name = 'a';
       row <= 5; col++) {
    cout << name << " ";
  }
}

```

1 2 3 4 5
 6 7 8 9 10
 11 12 13 14 15
 16 17 18 19 20
 21 22 23 24 25

```

int i = 1;
for (row = 1; row <= 5; row++) {
  for (col = 1; col <= 5; col++) {
    cout << i << " ";
    i++;
  }
  cout << endl;
}

```