

Pattern

1) for i in range(0,4):
 for j in range(0,4):
 if (j < i):
 print(end=" ")
 for x in range(0,4):
 print(end="x")
 print("\n")

```

x x x x
x x x x
x x x x
x x x x
  
```

2) for i in range(1,8):
 if (i%2 == 0):
 it = 1
 print("\n")
 continue
 for j in range(1,8):
 if (i != 1 or j == 1 or i == 7 or j == 7):
 print("x", end=" ")
 else:
 print(" ", end=" ")
 print("\n")

```

x x x x x x x
x               x
x               x
x x x x x x x
  
```

3) for i in range(1,6):
 a = 65
 for j in range(1, i+1):
 if (j < i):
 print(chr(a), end=" ")
 a += 1
 print("\n")

```

A
A B
A B C
A B C D
A B C D E
  
```

4) a = 65
 for i in range(1,6):
 for j in range(1, i+1):
 if (j < i):
 print(chr(a), end=" ")
 a += 1
 print("\n")

```

A
B B
C C C
D D D D
E E E E E
  
```

5) for i in range(1,6):
 a = 69
 for j in range(1, i+1):
 if (j < i):
 print(chr(a), end=" ")
 a -= 1
 print("\n")

```

E
E D
E D C
E D C B
E D C B A
  
```



```

6) for i in range(1, 6):
    for j in range(5, 0, -1):
        if (j <= i):
            print(" ", end=" ")
        else:
            print(" ", end=" ")
    print("")

```

```

7) for i in range(1, 6):
    for j in range(0, 5, 0, -1):
        if (j <= i):
            print(" ", end=" ")
        else:
            print(" ", end=" ")
    print("")

```

```

8) for i in range(6, 1, -1):
    for j in range(1, i-1):
        print(" ", end=" ")
    for k in range(1, 8-i):
        print(x, end=" ")
    x += 1
    print("")

```

```

9) for i in range(1, 6):
    for j in range(1, i):
        print(" ", end=" ")
    for k in range(0, 6-i):
        print(x, end=" ")
    x += 1
    print("")

```

```

10) for i in range(1, 6):
    for j in range(1, i):
        print(" ", end=" ")
    for k in range(0, 6-i):
        print(chr(x), end=" ")
    x += 1
    print("")

```

1
2
3
4
5

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

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

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

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

11) for i in range(6, 1, -1):
 x21
 for j in range(1, i-1):
 print(" ", end=" ")
 for k in range(1, x):
 print(x, end=" ")
 x+21
 print(" ")

```

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

```

12) for i in range(6, 1, -1)
 x2 65
 for j in range(1, i+1):
 print(" ", end=" ")
 for k in range(1, 6):
 print(chr(x), end=" ")
 x+21
 print(" ")

```

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

```

13) for i in range(6, 1, -1):
 for j in range(1, i-1):
 print(" ", end=" ")
 for k in range(1, 6):
 print("*", end=" ")
 x+21
 print(" ")

```

      * * * * *
     * * * * *
    * * * * *
   * * * * *
  * * * * *
 * * * * *

```

14) for i in range(6, 1, -1):
 x21
 for j in range(1, i-1):
 print(" ", end=" ")
 for k in range(1, 8-i):
 print("*", end=" ")
 x+21
 print(" ")

using extra space in row.

```

      * * * * *
     * * * * *
    * * * * *
   * * * * *
  * * * * *
 * * * * *

```

15) for i in range(5, 1, -1):
 for j in range(1, i-1):
 print(" ", end=" ")
 for k in range(1, 7-i):
 print("*", end=" ")
 for h in range(2, 7-i):
 print("*", end=" ")
 print(" ")

```

      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * *

```



```

16) for i in range(5, 1, -1):
    for j in range(1, i-1):
        print(" ", end=" ")
    for k in range(1, 7-i):
        if (k==1 or i==2):
            print("* ", end=" ")
        else:
            print(" ", end=" ")

```

```

      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * *

```

```

    for h in range(2, 7-i):
        if (i==2 or h==1):
            print("* ", end=" ")
        else:
            print(" ", end=" ")
    print(" ")

```

```

17) for i in range(1, 5):
    for j in range(1, i):
        print(" ", end=" ")
    for k in range(1, 6-i):
        print(" * ", end=" ")
    for s in range(1, 5-i):
        print(" * ", end=" ")
    print(" ")

```

```

* * * * *
 * * * *
  * * *
   * *
    *

```

```

18) for i in range(1, 5):
    for j in range(1, i+1):
        print(" * ", end=" ")
    print(" ")
    for k in range(4, 1, -1):
        for s in range(1, k):
            print(" * ", end=" ")
        print(" ")

```

```

*
 *
 * *
 * * *
 * * *
 * *
 *

```

```

19) for i in range(5, 1, -1):
    for o in range(1, i-1):
        print(" ", end=" ")
    for k in range(1, 7-i):
        print(" * ", end=" ")
    for h in range(2, 7-i):
        print(" * ", end=" ")
    print(" ")

```

```

      *
     * *
    * * *
   * * *
  * * *
 * * *

```

```

for s in range(1, 5)
for w in range(1, 5)
    print(" ", end=" ")

```


20) for i in range(1,6):

for j in range(1, i+1):

if (i==1 or j==i or i==5):

print(" ", end=" ")

else:

print(" ", end=" ")

if i==1

print(" ")

```

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

```

21

for i in range(1,6):

for k in range(i,5):

print(" ", end=" ")

for j in range(1, i+1):

if (i==1 or i==5 or j==i):

print(j, end=" ")

else:

print(" ", end=" ")

print(" ")

```

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

```

22)

for i in range(1,6)

for j in range(i,6)

if (i==1 or i==5 or j==5):

print(j, end=" ")

else:

print(" ", end=" ")

print(" ")

```

1 2 3 4 5
2
3
4
5

```

23)

for i in range(1,6):

for k in range(i,5):

print(" ", end=" ")

for j in range(1, 2*(i-1)+1):

print(j, end=" ")

print(" ")

for s in range(5, 1, -1):

for k in range(s,6):

print(" ", end=" ")

for j in range(1, 2*(s-1)+1):

print(j, end=" ")

print(" ")

```

      1
     1 2 3
    1 2 3 4 5
   1 2 3 4 5 6 7
  1 2 3 4 5 6 7 8 9
 1 2 3 4 5
1 2 3
1

```