

```
In [74]: #a
for x in range(6):
    for y in range(0,x):
        print(x,end=" ")
    print()
```

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

```
In [77]: #b
for x in range(1,6):
    for y in range(1,x+1):
        print(y, end=" ")
    print()
```

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

```
In [76]: #c
y=1
for x in range(5,0,-1):
    for s in range(x,0,-1):
        print(y,end=" ")
    y+=1
    print()
```

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

```
In [75]: #d
for x in range(5,0,-1):
    for y in range(0,x):
        print("5",end=" ")
    print()
```

```
5 5 5 5 5
5 5 5 5
5 5 5
5 5
5
```

```
In [78]: #e
for x in range(5):
    for y in range(6-x):
        print(y,end=" ")
    print()
```

```
012345
01234
0123
012
01
```

```
In [79]: #f
for x in range(1,10,2):
    for y in range((x//2)+1):
        print(x,end=" ")
    print()
```

```
1
3 3
5 5 5
7 7 7 7
9 9 9 9 9
```

```
In [80]: #g
for x in range(5,0,-1):
    for y in range(x):
        print(x,end=" ")
    print()
```

```
55555
4444
333
22
1
```

```
In [82]: #h
for x in range(1, 6):
    for y in range(x, 0, -1):
        print(y, end=' ')
    print()
```

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

```
In [83]: #i
for x in range(5,0,-1):
    for y in range(x, 0, -1):
        print(y,end=' ')
    print()
```

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

```
In [85]: #m
for x in range(1,6):
    for y in range(1,6):
        if y<=x:
            print(x,end=" ")
        else:
            print(y,end=" ")
    print()
```

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

```
In [84]: #k
for x in range(5):
    for z in range(5 - x - 1):
        print(" ", end=" ")
    for z in range(x + 1):
        print(z + 1, end=" ")
    print()
```

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

```
In [ ]:
```

```
In [86]: #n
for y in range(1,9):
    for x in range(1,y+1):
        print(y*x,end=" ")
    print()
```

```
1
2 4
3 6 9
4 8 12 16
5 10 15 20 25
6 12 18 24 30 36
7 14 21 28 35 42 49
8 16 24 32 40 48 56 64
```

```
In [87]: #o
for y in range(1,6):
    for x in range(1,y+1):
        print("*",end=" ")
    print()
```

```
*
* *
* * *
* * * *
* * * * *
```

```
In [44]: #q
for y in range(6,1,-1):
    for x in range(y,1,-1):
        print("*",end=" ")
    print()
```

```
* * * * *
* * * *
* * *
* *
*
```

```
In [88]: #r
x=1
for y in range(7,1,-1):
    print(" "*x,end=" ")
    for z in range(y,1,-1):
        print("*",end=" ")
    x+=1
    print()
```

```
* * * * *
* * * *
* * *
* *
*
*
```

```
In [89]: #s
x=1
for y in range(6,1,-1):
    print(" "*x,end=" ")
    for z in range(y,1,-1):
        print("*",end=" ")
    x+=1
    print()
```

```
*****
****
***
**
*
```

```
In [90]: #t
x=1
for y in range(8,1,-1):
    print(" "*y,end=" ")
    for z in range(1,x+1):
        print("*",end=" ")
    x+=1
    print()
```

```
      *
    * *
  * * *
* * * *
* * * * *
* * * * *
* * * * *
```

```
In [91]: #q
for y in range(1,7):
    for x in range(1,y+1):
        print("*",end=" ")
    print()
print()
for y in range(7,1,-1):
    for x in range(1,y):
        print("*",end=" ")
    print()
```

```
*
* *
* * *
* * * *
* * * * *
* * * * * *

* * * * * *
* * * * *
* * * *
* * *
* *
*
```

```
In [92]: #r
for y in range(1,6):
    for x in range(1,y):
        print("*",end=" ")
    print()
for y in range(6,1,-1):
    for x in range(1,y):
        print("*",end=" ")
    print()
```

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

```
In [93]: #t
x=1
for y in range(6,1,-1):
    print(" "*x,end=" ")
    for z in range(1,y):
        print("*",end=" ")
    x+=1
    print()
x=5
for y in range(1,6):
    print(" "*x,end=" ")
    for z in range(y+1,1,-1):
        print("*",end=" ")
    x-=1
    print()
```

```
* * * * *
* * * *
* * *
* *
*
*
* *
* * *
* * * *
* * * * *
```

```
In [94]: #u
x=1
for y in range(6,1,-1):
    print(" "*y,end=" ")
    for z in range(1,x+1):
        print("*",end=" ")
    x+=1
    print()
x=1
for y in range(7,1,-1):
    print(" "*x,end=" ")
    for z in range(1,y):
        print("*",end=" ")
    x+=1
    print()
```

```
*
* *
* * *
* * * *
* * * * *
* * * * *
* * * *
* * *
* *
*
```

In []: