

Python Function Picture

```
def add(a, b):
    return a + b
```

```
print(add(3, 6))
```

```
x = add(3, 6)
```

```
x [9]
```

```
y = 4
```

```
z = add(x, y)
```

```
z [13]
```

```
w = add(3 + x, 2 - y)
```



Pass by value

Lists ^{loc} 0 1 2 3 4

Scores = [10, 3, 2, 4, 6]

for x in scores:

print(x)

for i in range(len(scores)):

print(scores[i])

10
3
2
4
6

```
def add changelist(mylist):  
    for i in range(len(mylist)):  
        mylist[i] += 1
```

main
a = [2, 3, 4]
Change list(a)

changlist
mylist

Pass by reference

Designs

Right Tri

$\star$
 $\star \star$
 $\star \star \star$
 $\star \star \star \star$
 $n=4$

Right Just

spaces

3	*
2	*
1	*
	*

$n=4$

Parallelogram

0
 1
 2

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

3 rows
 4 stars/row

Side Pyramid

[illegible]

Right Tri

Back Right Tri

Back Right Tri

~~1~~ ~~2~~ ~~3~~ ~~4~~
~~5~~ ~~6~~ ~~7~~
~~8~~ ~~9~~
~~10~~ GNC



$Sp = (2, 1, 0) \rightarrow \text{loop spaces}$
 $(St) = 1, 3, 5$
 $\downarrow$
 separate var

startcnt = 1

for spaces in range(n-1, -1, -1):

{ print

startcnt += 2