Python 1 Day 4 Written Notes
6/9/22

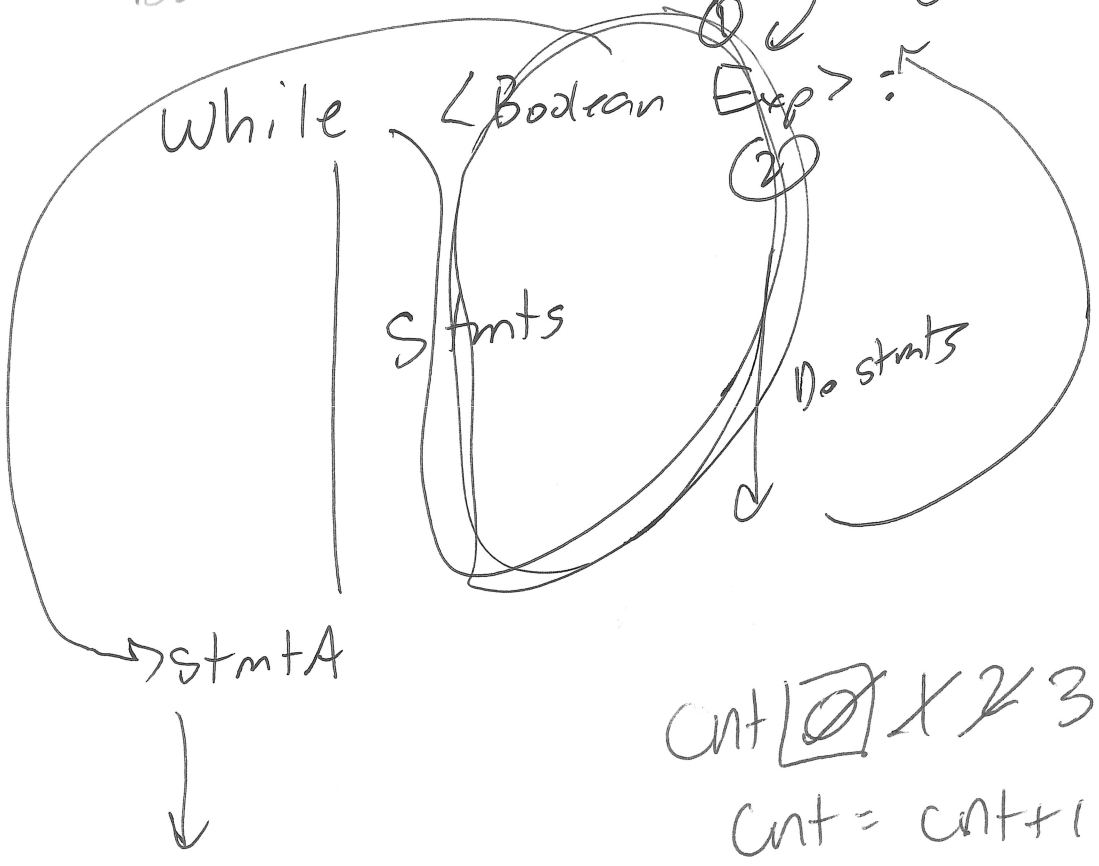
For Loop

Characteristics - runs a "fixed" # of times.

But not all processes run a fixed # of times!

While not pass driving test:
    take test
    practice

In this situation # times repeat is unknown.
But there's some stopping condition.



cnt = 0 X 2 X 3
cnt = cnt+1
cnt += 1

total 0 10 35 40 90

donation 10 25 5 50

```
total = 0
donation = int(input("what ... "))
total = total + donation
donation = int(input("... "))
total = total + donation
donation = int(input("... "))
total = total + donation
donation = int(input("... "))
total = total + donation
```

Gets 4 donations

i 0 1 2 3

```
total = 0
for i in range(4):
    donation = int(input("... "))
    total = total + donation
```

3 2 1 0

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

```
for i in range(n):
```

i 0 1 2 3 ... n-1

1 2 3 4

Print i+1 stars

Prints i+1 stars

```
for j in range(i+1):
    print("*", end="")
```

i	j		
0	0	*	first row
1	0, 1	**	second row
2	0, 1, 2	***	

3^5 base exp

3**5

3 x 3 x 3 x 3 x 3

total 1 3 9 27 243 base 3 exp 5 i 0 1 2 3 4 5

```
for i in range(exp):
    total = total * base
```

9 horiz lines
9 vertical lines

STARTY = -200

NUMROWS = 8
NUMCOLS = 8
SQSIZE = 50
STARTX = -200

] how far