

CIS 1068

September 3, 2024

Administrative Stuff

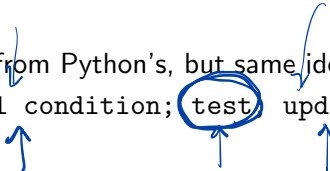
- ▶ Practice!
- ▶ Lab 1 due. Lab 2 posted soon
- ▶ Reading: ch. 1-3
- ▶ today's office hours: 12 - 1 or by appt.
- ▶ ACM today 5 - 6:30 SERC 358

Last Time

java's for loop

- ▶ just like C's
- ▶ very different from Python's, but same idea as while

```
for (initial condition; test; update) {  
    ...  
}
```



critical concepts often confused

- ▶ scope
- ▶ parameters
 - ▶ value copied to function
 - ▶ parameter passed by position **not** name

What's Printed?

C

```
6 int main(void) {
7     int x = 10;
8     inc(x);
9
10    printf("%d\n", x);
11
12    return EXIT_SUCCESS;
13 }
14
15 void inc(int x) {
16     x++;
17 }
```

Python

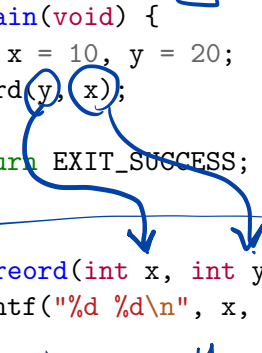
```
1 def main():
2     x = 10
3     inc(x)
4
5     print(x)
6
7 def inc(x):
8     x += 1
9
10 if __name__ == "__main__":
11     main()
```

Answer: 10

What's Printed?

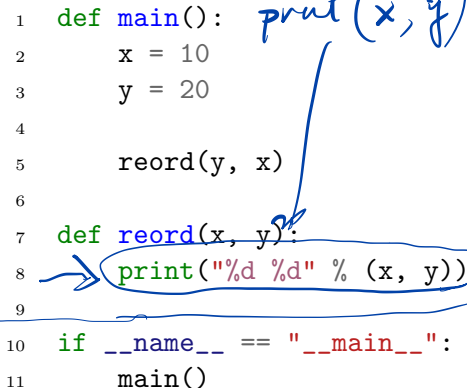
C

```
6 int main(void) {  
7     int x = 10, y = 20;  
8     reord(y, x);  
9  
10    return EXIT_SUCCESS;  
11 }  
  
12  
13 void reord(int x, int y) {  
14     printf("%d %d\n", x, y);  
15 }
```



Python

```
1 def main():  
2     x = 10  
3     y = 20  
4  
5     reord(y, x)  
6  
7 def reord(x, y):  
8     print("%d %d" % (x, y))  
9  
10 if __name__ == "__main__":  
11     main()
```



Today

- ▶ returns
- ▶ little bit of OO
- ▶ more on Java String
- ▶ reading input from keyboard