

CIS 1068

September 3, 2024

- ▶ 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()
```



## 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