

# 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()
```

# 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