

Computer Science I (Java) — CSC 130 — Duke Hutchings

Day 13 Agenda

Loops review

Loops problems

Continue PW4

Loops

When you want to repeat something more than once

- > a fixed number of times
- > until something happens

Loops

Instead of this:

```
rect(x, y, w, h);  
x = x + w;  
rect(x, y, w, h);  
x = x + w;  
rect(x, y, w, h);  
x = x + w;  
rect(x, y, w, h);  
x = x + w;
```

We can do this:

```
int i = 0;  
while (i < 4) {  
    rect(x, y, w, h);  
    x = x + w;  
    i++; // i = i + 1  
}
```

Loops

We can even do this

```
while (x+w < width) {  
    rect(x, y, w, h);  
    x = x + w;  
}
```

“Until something happens”

```
while (x+w < width) {  
    rect(x, y, w, h);  
    x = x + w;  
}
```

“Fixed number of times”

```
int i = 0;  
while (i < 4) {  
    rect(x, y, w, h);  
    x = x + w;  
    i++; // i = i + 1  
}
```

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