

Quiz 9: For loops

SOLUTIONS

CSCI 110 Section 1

Wednesday, September 7, 2016

- 1) Write a while loop that prints "hello" five times. [30 points]

There are many possible solutions to this problem. I prefer to start my variables at 0 and you'll see why when we start talking about Lists.

```
int i = 0;
while (i < 5) {
    System.out.println("hello");
    i++;
}
```

- 2) Write a for loop that prints numbers from 0 through 5. [30 points]

The first part of a for loop expects a full variable declaration, so don't forget the type.

```
for (int i = 0; i <= 5; i++) {
    System.out.println(i);
}
```

- 3) Convert the following for loop into an equivalent while loop. [40 points]

```
for (int i = 10; i < 200; i++) {
    System.out.println("are we there yet");
}
```

```
int i = 10;
while (i < 200) {
    System.out.println("are we there yet");
    i++;
}
```

- 4) Write a for loop that counts from 10 down through -10 in increments of 2. [extra credit, 25 points]

```
for (int i = 10; i >= -10; i -= 2) {  
    System.out.println(i);  
}
```