## **16.216: ECE Application Programming**

Fall 2012

Lecture 14: Key Questions October 10, 2012

1. In what cases are for loops useful? Describe the basic structure of a for loop.

3. Explain the difference between pre- and post-increment or decrement operators.

4. **Example:** What does the following program print?

```
int n = 5;
printf("n = %d\n", ++n);
printf("Now, n = %d\n", n++);
printf("Finally, n = %d\n", n);
```

```
5. Example: What does each of the following print?
```

```
a. for (i = 5; i < 40; i += 8) {
    printf("%d ", i);
}
```

```
b. for (i = -5; i < -10; i--)
{
    printf("%d ", i);
}</pre>
```

```
c. for (i = 10; i <= 100; i = i+10)
{
    if (i % 20)
        printf("%d ", i);
}</pre>
```

```
d. for (i = 5; i < 10; i += i%2)
{
    printf("%d ", i++);
}</pre>
```