16.216: ECE Application Programming

Spring 2012

Lecture 18: Key Questions March 7, 2012

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

2.	Describe the operators that allow you to directly modify a variable without writing a full assignment statement.

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);
}

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