

16.216: ECE Application Programming

Fall 2011

Lecture 17: Key Questions

October 17, 2011

1. Explain the use of a `continue` statement with a loop. What is the difference between `break` and `continue`?
2. In what cases are `for` loops useful? Describe the basic structure of a `for` loop.

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

4. **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);
}
```

d.

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