EECE.2160: ECE Application Programming Spring 2019

Lecture 13: Key Questions February 25, 2019

QUESTIONS:

- 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.

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EXAMPLES:

1. 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); EECE.2160: ECE Application Programming Spring 2019

```
2. 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++);
  }
```