## **EECE.2160: ECE Application Programming**Spring 2016

Lecture 12: Key Questions February 22, 2016

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

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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 \le 100; i = i+10)
  {
      if (i % 20)
        printf("%d ", i);
  }
d. for (i = 5; i < 10; i += i\%2)
   printf("%d ", i++);
```

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Finishing PE2:
Flowchart/code for 2<sup>n</sup>

Flowchart/code for n!