## **EECE.2160: ECE Application Programming** Fall 2017

Lecture 14: Key Questions October 11, 2017

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 $(i = 10; i \le 100; i = i+10)$ { 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!