

# EECE.2160: ECE Application Programming

## Spring 2019

### Lecture 11: Key Questions

February 19, 2019

#### QUESTIONS:

1. Explain how `while` loops can be used:
  - a. When number of iterations is dependent on a variable (flexible limit)
  - b. When you want to repeat an operation until a given value (sentinel) is entered (`while3.c`)
2. What is the difference between a `while` loop and a `do-while` loop?
3. Show the difference between the outputs of the loops below

```
x = 7;
do {
    printf("%d", x);
    x = x + 1;
} while ( x < 3 );
```

```
x = 7;
while ( x < 3 )
{
    printf("%d", x);
    x = x + 1;
}
```

4. Recall the example for using a `while` loop with a sentinel value in the grade average program and show that loop written as a `do-while` loop.

