

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

Spring 2016

## Lecture 4: Key Questions

January 27, 2016

1. What are the basic binary arithmetic operators supported by C?
2. Explain the modulus operator (%).
3. What determines the type of a binary operation's result?
4. What is the difference between division of integers and floating-point types?



7. Describe the use of `printf()` to print numeric values and characters.

8. **Example:** Show the output of each of the following short programs:

a.

```
#include <stdio.h>
void main()
{
    int i=2, j=3, k, m;
    k = j * i;
    m = i + j;
    printf("%d %d %d %d\n", i, j, k, m);
}
```

b.

```
#include <stdio.h>
void main() {
    double f, g;
    f = 1.0 / 4.0;
    g = f * 20;
    printf("f = %lf, \ng = %.2lf\n", f, g);
}
```

c.

```
#include <stdio.h>
void main() {
    int a = 5, b = 2;
    printf("Output%doesn't%make%sense", a, b, a + b);
}
```