16.216: ECE Application Programming

Spring 2013

Lecture 16: Key Questions March 4, 2013

1. **Example:** What does the following print?

```
int f(int *a, int *b);
int main() {
   int x = 1;
   int y = 2i
   int result1, result2, result3;
   result1 = f(&x, &y);
   result2 = f(&y, &result1);
   result3 = f(&result1, &result2);
   printf("x = %d, y = %d\n", x, y);
   printf("Result 1: %d\n", result1);
   printf("Result 2: %d\n", result2);
   printf("Result 3: %d\n", result3);
   return 0;
}
int f(int *a, int *b)
   int copyB = *b;
   while (*a > 1) {
       *b += copyB;
       (*a)--;
   return *b;
}
```

- 2. Write a function that:
 - Given two integer arguments, x and y, store the quotient and remainder of x / y into locations specified by arguments q and r, respectively.

• Uses pointers to swap the values of two double-precision variables