16.216: ECE Application Programming

Fall 2014

Lecture 14: Key Questions October 8, 2014

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

```
#include <stdio.h>
int f(int a, int b);  // Function prototype
int main() {
     int x = 1;
     int y = 2;
     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) // Function definition
                        // Loop index
     int i;
     int r = 0;
                         // Result
     for (i = 0; i < a; i++)
          r += b;
     return r;
}
```