

Plan 6

October 9 – October 16

- Read Chapter 6 and Section 7.1 - 7.5 of Chapter 7 in the textbook.
- Read Chapter 3 in “Programming from the Ground Up” (available via the web page of the course).
- **Exercise 12** Generate the x86 assembly code for the C function on the next page. Hint: Use ‘gcc -S -m32’ in a terminal window under Ubuntu. Comment the generated code.
- **Exercise 13** Repeat the previous exercise but this time for optimized code. Hint: Use ‘gcc -O -S -m32’ .

```
void sort(int *a, int n) {
    int i, j;
    for (i = 0; i < n; i++) {
        for (j = n - 1; j > i; j--) {
            if (a[i] > a[j]) {
                int temp = a[i];
                a[i] = a[j];
                a[j] = temp;
            }
        }
    }
}
```