Please review the “RTL Primer” document located on the course website before completing this homework.

1. (25 pts) Please produce the RTL for the AND instruction of the atmega328. Your RTL should only partition the instruction into the FETCH and EXECUTE phases. You may provide a separate sheet of paper if desired.

2. (25 pts) Please produce the RTL for the COM instruction of the atmega328. Your RTL should only partition the instruction into the FETCH and EXECUTE phases. You may provide a separate sheet of paper if desired.