Practice Problems for DRC Assembly Language Programming

1. Write a program that takes two numbers from locations 25 and 26, puts their sum in location 27 and their difference M25 – M26 in memory location 28.

2. Write a program that takes two numbers from memory locations 40 and 41 and exchanges them. I.e. it puts the number from memory location 40 into 41 and from memory location 41 into 40.

3. This problem is similar to problem #2. Write a program that takes two numbers from memory locations 40 and 41 and exchanges them but only if the number in location 40 is greater than the number in location 41.

4. Write a program that examines all the numbers stored in locations 41 .. 45, and if any number is negative, replaces that memory location with the number that is the absolute value of the number (i.e. a 5 would not change but a –3 would become a 3).

5. Write a program that examines the numbers stored in locations 41 .. 45, selects the largest of the group and puts it in location 50.