EECS1010 Logic Design

HW4-2

- 1. (10%) Design a 3->8 decoder using only NOR and NOT gates.
- 2. (10%) Design a 4->2 priority encoder with input D[3:0] and output A[1:0] where D_0 has the highest priority and D_3 has the lowest priority.
- 3. (20%) Design a three-way magnitude comparator that outputs true if its three inputs are in strict order: a<b<c. a, b, and c are all three-bit signed 2's complement numbers.