QUIZ #03
CSCI-410 Spring 2013

1. (15pts) Write Hack assembly language code that performs the following task:

   SHIFT LEFT (LOGICAL): Given a data value stored at memory location 0 and a shift amount stored at memory location 1, shift the contents of the data by the amount requested. If the amount is positive, then shift the data value to the left, if the amount is negative, shift the data value to the right. Fill the vacated locations with zeros. You do not need to preserve the contents of location 1.

2. (5 pts) Write Hack assembly language code that performs the following task:

   ROTATE LEFT: Given a data value stored at memory location 0 and a rotate amount stored at memory location 1, rotate the contents of the data by the amount requested. If the amount is positive, then rotate the data value to the left; if the amount is negative, rotate the data value to the right. You do not need to preserve the contents of location 1.