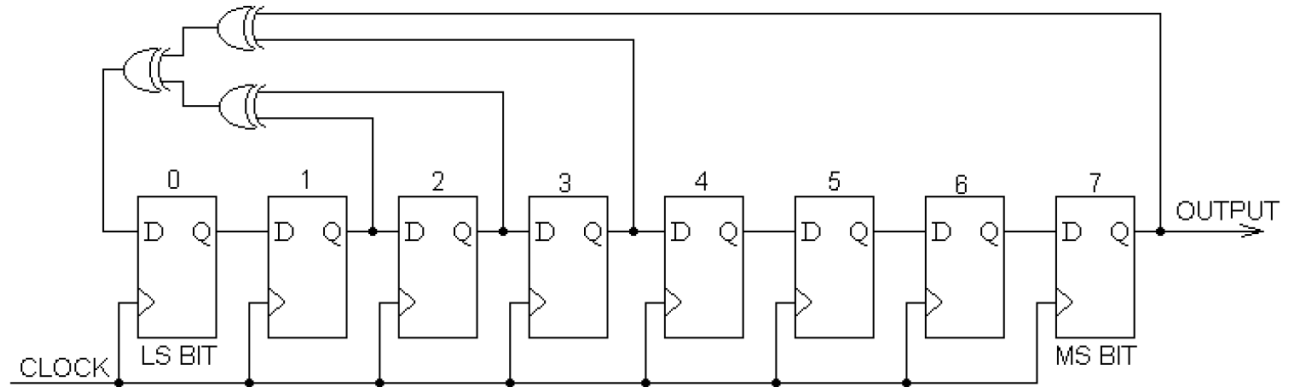


### Homework 4

1. Using VMLAB, write a register-level AVR program that makes R16 into an 8-bit LFSR register with the following schematic representation. Remember that you have the AVR information in your lab description for Experiment 0x08 (Register-Level Programming) and the AVR instruction set posted on D2L. You will have to use some commands that were not used in the lab.



2. Go to lab (ST313) and configure ARB to transmit a PRBS pattern (you pick PRBS type) at 1Kbps. Capture signal on oscilloscope triggering on the longest pulse (use width trigger). Capture enough bits to see the widest pulse along with a few extra bits. Paste scope shot below including time measurement of widest pulse and trigger menu.