

**First name:** \_\_\_\_\_



Addr1 Mux: PC  
Addr2 Mux: SEXT(IR[8:0])  
MARMUX: Addr. Adder  
Gate. MARMUX  
LD.MAR  
Mem.en /R (wait for ready signal)  
LD.MDR  
Gate.MDR  
DRMUX: IR[11:9]  
LD.Reg