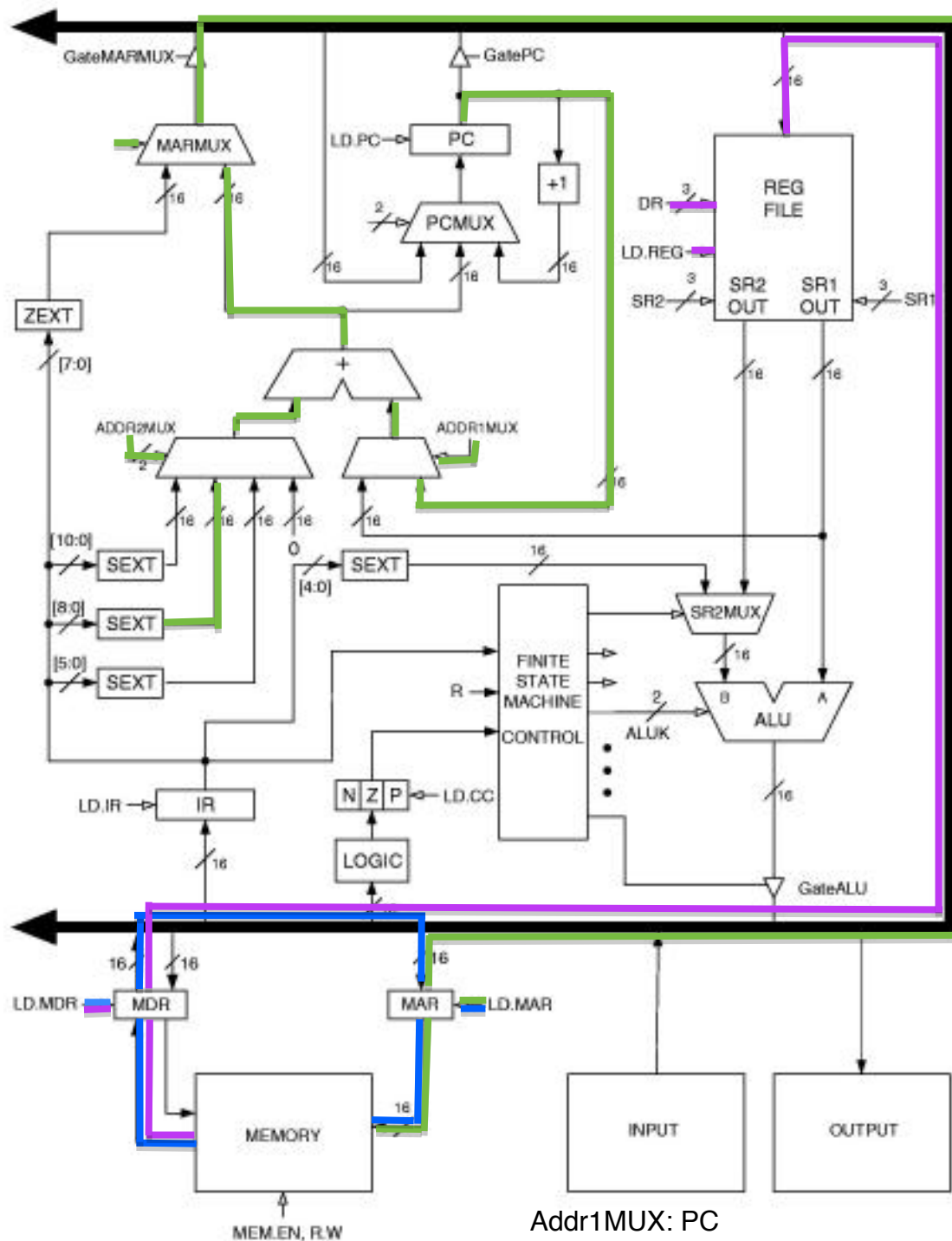


Last name: LDI

First name: _____



1010-DR-PCOffset9

$DR \leftarrow \text{Mem}[\text{Mem}[\text{PC} + \text{SEXT}(\text{IR}[8:0])]]$

Addr1MUX: PC
 Addr2MUX: SEXT(IR[8:0])
 MARMUX: Addr. Adder
 Gate.MARMUX
 LD.MAR
 Mem.en /R wait for ready signal
 LD.MDR
 Gate.MDR
 LD.MAR
 Mem.en /R
 LD.MDR
 Gate.MDR
 DRMUX: IR[11:9]
 LD.Reg