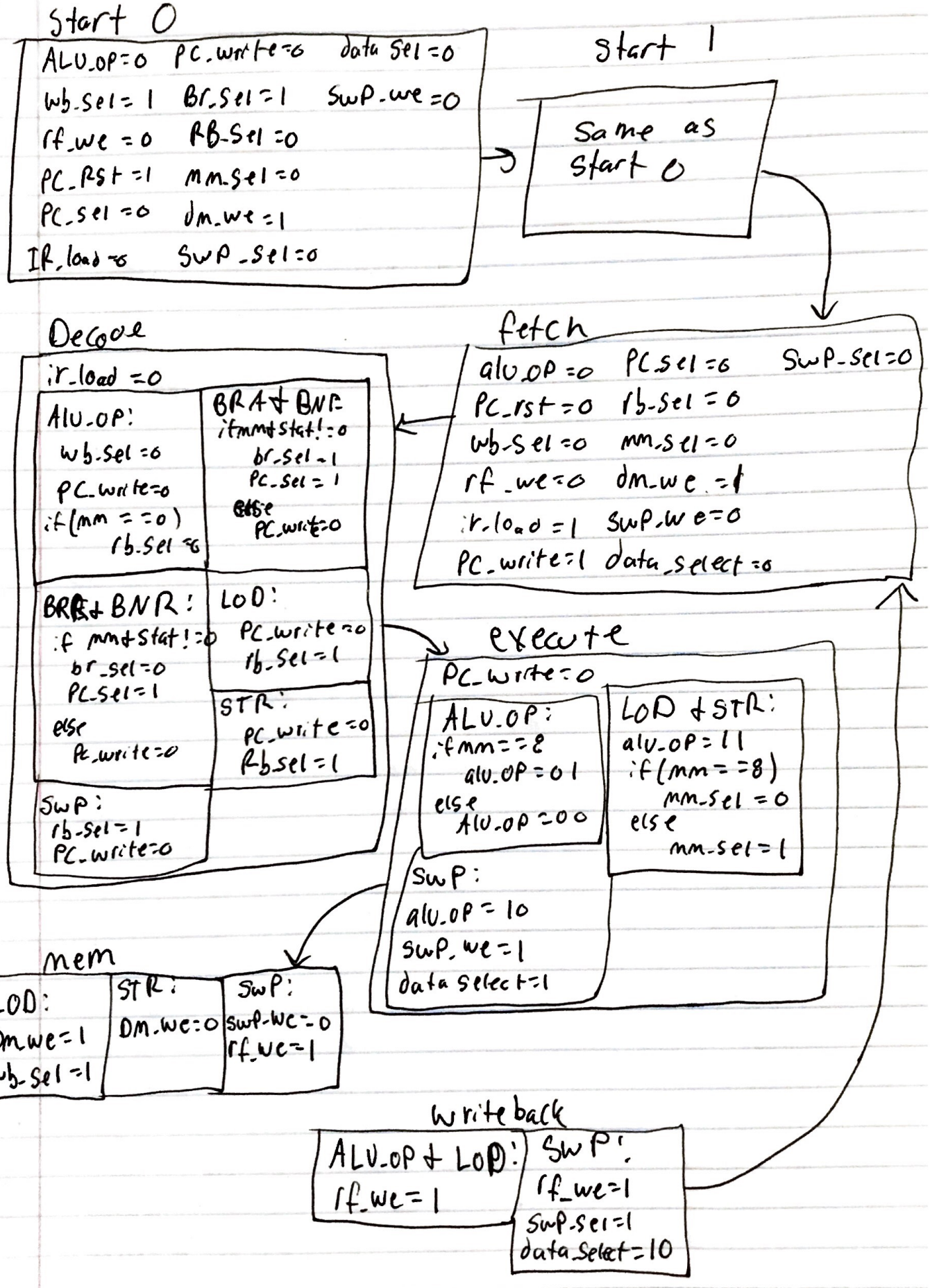
Start 0
ALU_OP=0 PC_write=0 data sel=0
wb_sel=1 Br_Sel=1 swp_we=0
rf_we=0 RB_Sel=0
PC_RST=1 mm_sel=0
PC_sel=0 dm_we=1
IR_load=0 swp_sel=0
Start 1
Same as Start 0
fetch
alu_OP=0 PC_sel=0 swp_sel=0
PC_rst=0 rb_sel=0
wb_sel=0 mm_sel=0
rf_we=0 dm_we=1
ir_load=1 swp_we=0
PC_write=1 data_select=0
Decode
ir_load=0
ALU_OP:
wb_sel=0
PC_write=0
if(mm==0)
rb_sel=0
BRA+BNR:
if mm+stat!=0
br_sel=1
PC_sel=1
else
PC_write=0
BRA+BNR:
if mm+stat!=0
br_sel=0
PC_sel=1
else
PC_write=0
LOD:
PC_write=0
rb_sel=1
STR:
PC_write=0
Rb_sel=1
SWP:
rb_sel=1
PC_write=0
execute
PC_write=0
ALU_OP:
if mm==8
alu_OP=01
else
ALU_OP=00
LOD+STR:
alu_OP=11
if(mm==8)
mm_sel=0
else
mm_sel=1
SWP:
alu_OP=10
swp_we=1
data select=1
mem
LOD:
Dm_we=1
wb_sel=1
STR:
Dm_we=0
SWP:
swp_we=0
rf_we=1
write back
ALU_OP+LOD:
rf_we=1
SWP:
rf_we=1
swp_sel=1
data_select=10