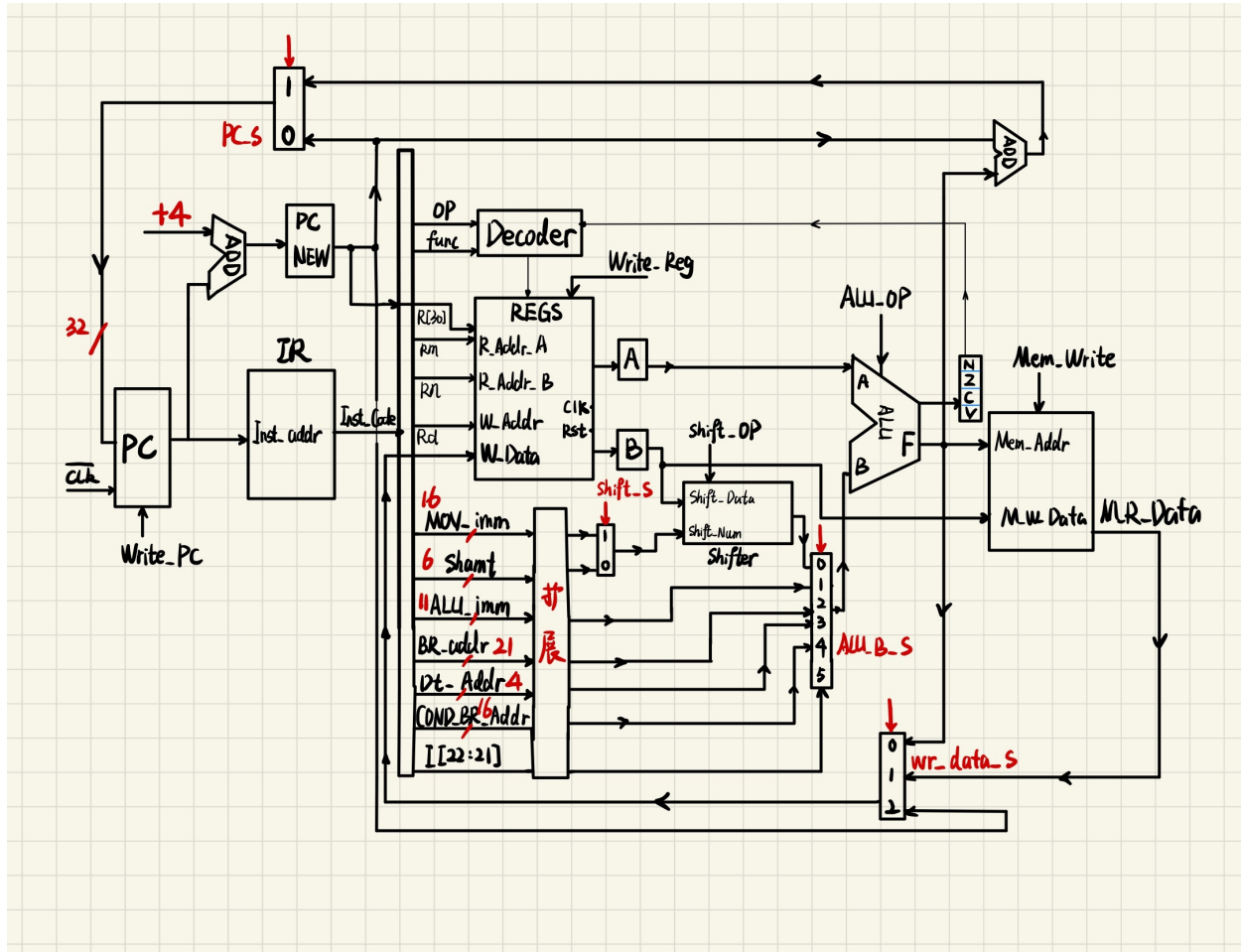
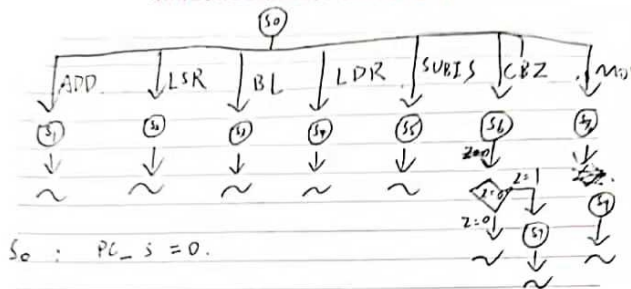


小组成员：颜伟鹏，高炜哲，周俊佐





S_0 : $PC_S = 0$.

S_1 : Shift_OP.
 $ALU_B_S = 0$, $ALU_OP: F = A + B$.
 $wr_data_S = 0$, $write_Reg = 1$

S_2 : Shift_OP.
 $ALU_B_S = 0$, $ALU_OP: F = B$
 $wr_data_S = 0$, $write_Reg = 1$

S_3 : $wr_data_S = 2$, $write_Reg = 1$, $Rd = R[10]$.
 $ALU_B_S = 2$, $PC_S = 1$.
 $ALU_OP: F = B$

S_4 : $Rm = Rn$, $ALU_B_S = 3$
 $ALU_OP: F = A + B$, Mem
 $wr_data_S = 1$, $write_Reg = 1$

S_5 : $Rm = Rn$, $ALU_B_S = 1$
 $ALU_OP: F = A - B$, 13位标志位.
 $wr_data_S = 0$, $write_Reg = 1$

S_6 : $Rm = Rt$, $ALU_OP: F = A$.
~~if $Z=1$: $ALU_B_S = 4$~~

S_7 : $ALU_B_S = 4$, $F = B$, $PC_S = 1$

~~S_8 : Shift_S = 1, Shift_OP: Shift_Data $\times 16$~~

S_8 : $ALU_B_S = 5$, $ALU_OP: F = B \times 16$
 $wr_data_S = 0$, $write_Reg = 1$

S_9 : $Rn = Rd$, $Shift_S = 1$
 $Shift_OP: Shift_Num \otimes Shift_Data$
 $ALU_B_S = 0$, $ALU_OP: F = B$.
 $wr_data_S = 0$, $write_Reg = 1$