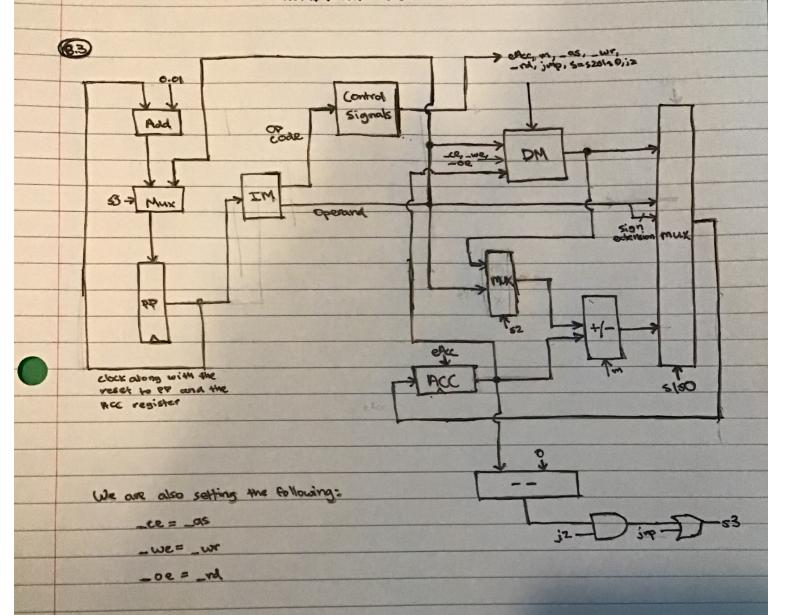
HOWEMORK #8



We are getting _as, _wr, _rh from the control signals.

53 goes from the bottom and jumps into the Mux in the decade wit. No wire was placed there because it would make it super messy.

Pholem I) Computation is performed by a RISC ISA. A = B* (C+D). What is the value in R4 after the execution of code line #6: (B=5; C=10; D=15) ie: Code line #6 has been completed.

1) LD RI, (c) => RI = 10

- · What this line of codes does, is that it loads the value stored in C into the Register RI.
- 2) LD R2, (0) => R2=15
 - · Line #2 is similar to # 1 but instead it loads the uplace shored in D into 82.
- 3) ADD R3, R1, R2 => R3 = 10+15 = 25
 - · Line #3 takes R1 and R2, adds then together, and stores the result in R3.
- 4) LD R4, (B) => R4= 5
 - · Line #4 is similar top #1 and #2 but instead it loads the value stored in B into R4.
- 5) MUL 85, 83, 84 => R5 = 25 x 5 = 25
 - . Line #5 takes 83 and R4, multiplies them, and stores the result in R5.
- 6) ST (A), 25 => A = 125
 - · Line #6 takes R5 and stores the value in memory address A.

Answer: The value in RY is still 5 after the execution of code line #6 because no new changes have been made to that regulater. Therefore, the value in it stays the same.