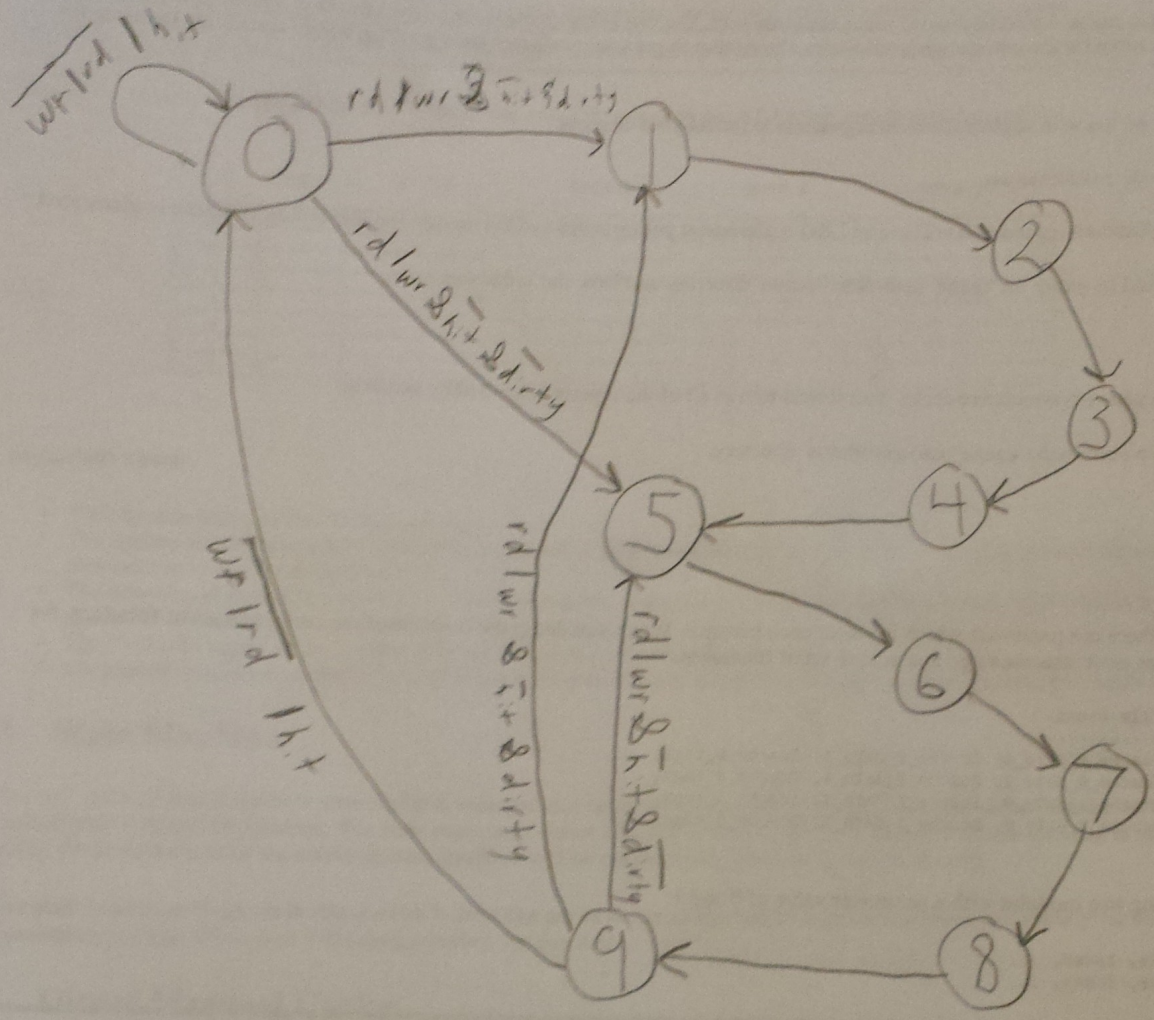

mem_wr = 1 in state 1, 2, 3, 4

mem_rd = 1 in state 6, 7, 8, 9

comp = 1 in state 0, 9

Stall = 1 in 1, 2, 3, 4, 5, 6, 7, 8

cache_hit = 1 if state 0 & hit

cache_wr = 1 in 1, 2, 3, 4

I'm not sure this is correct, but I think it is a good starting point. During implementation, I think I will better understand state diagram