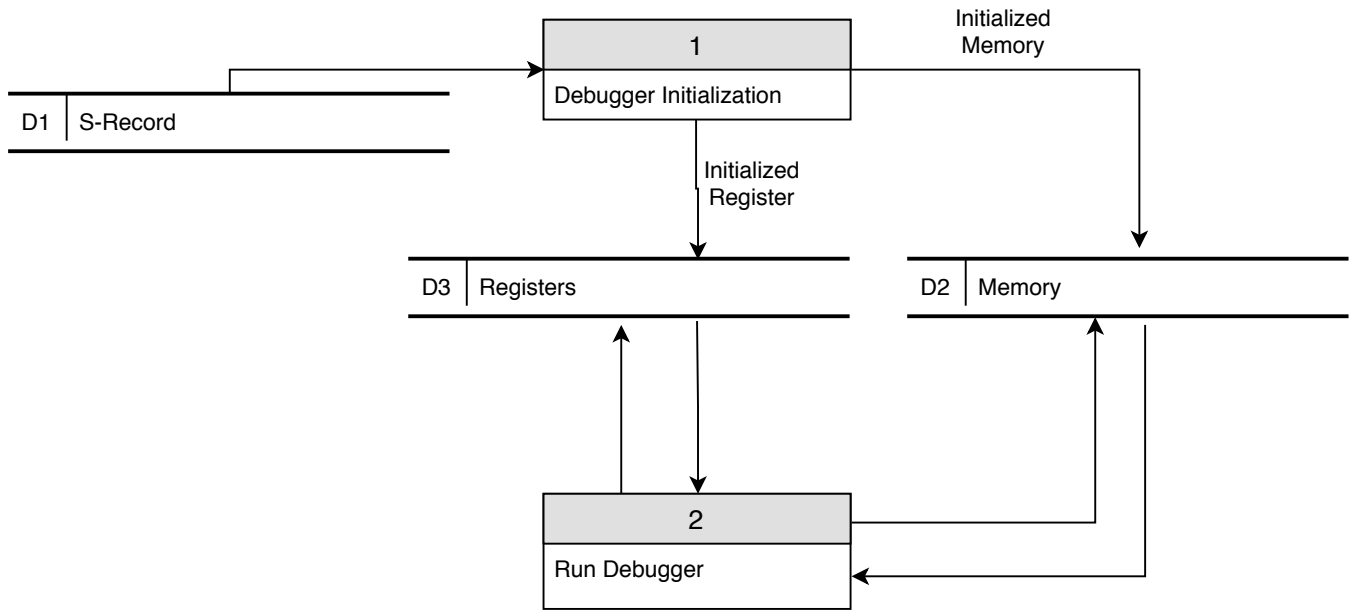
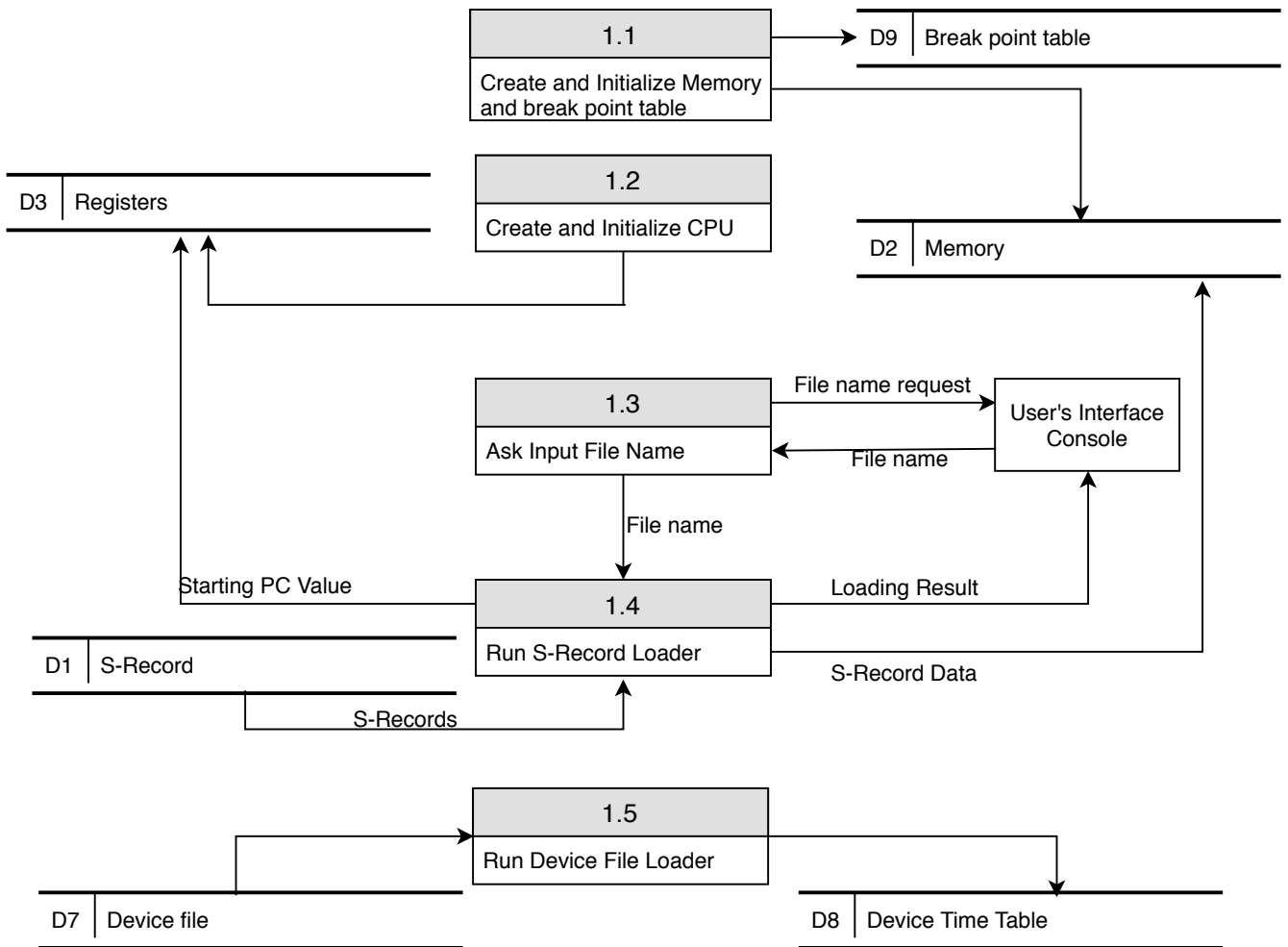
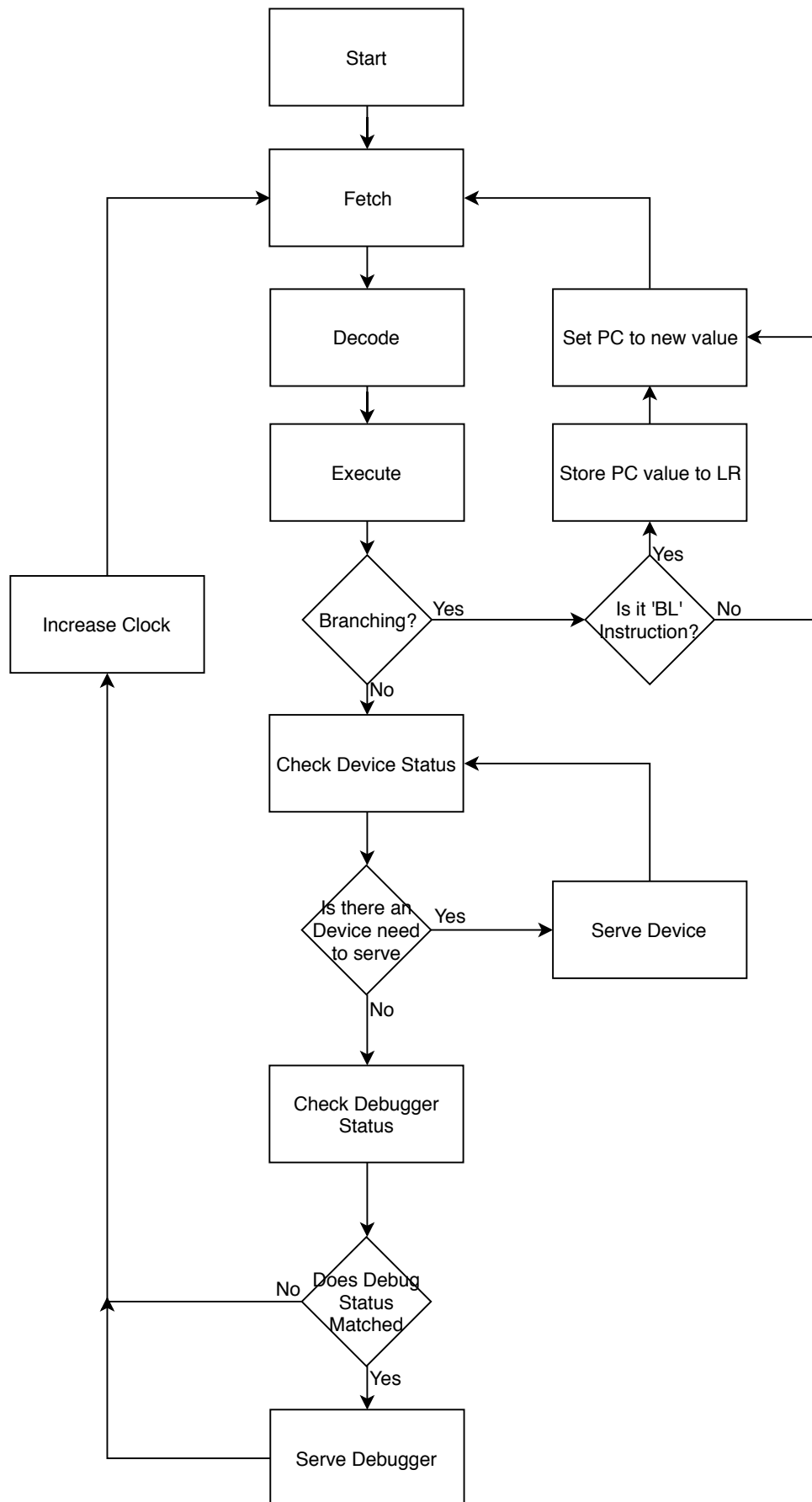


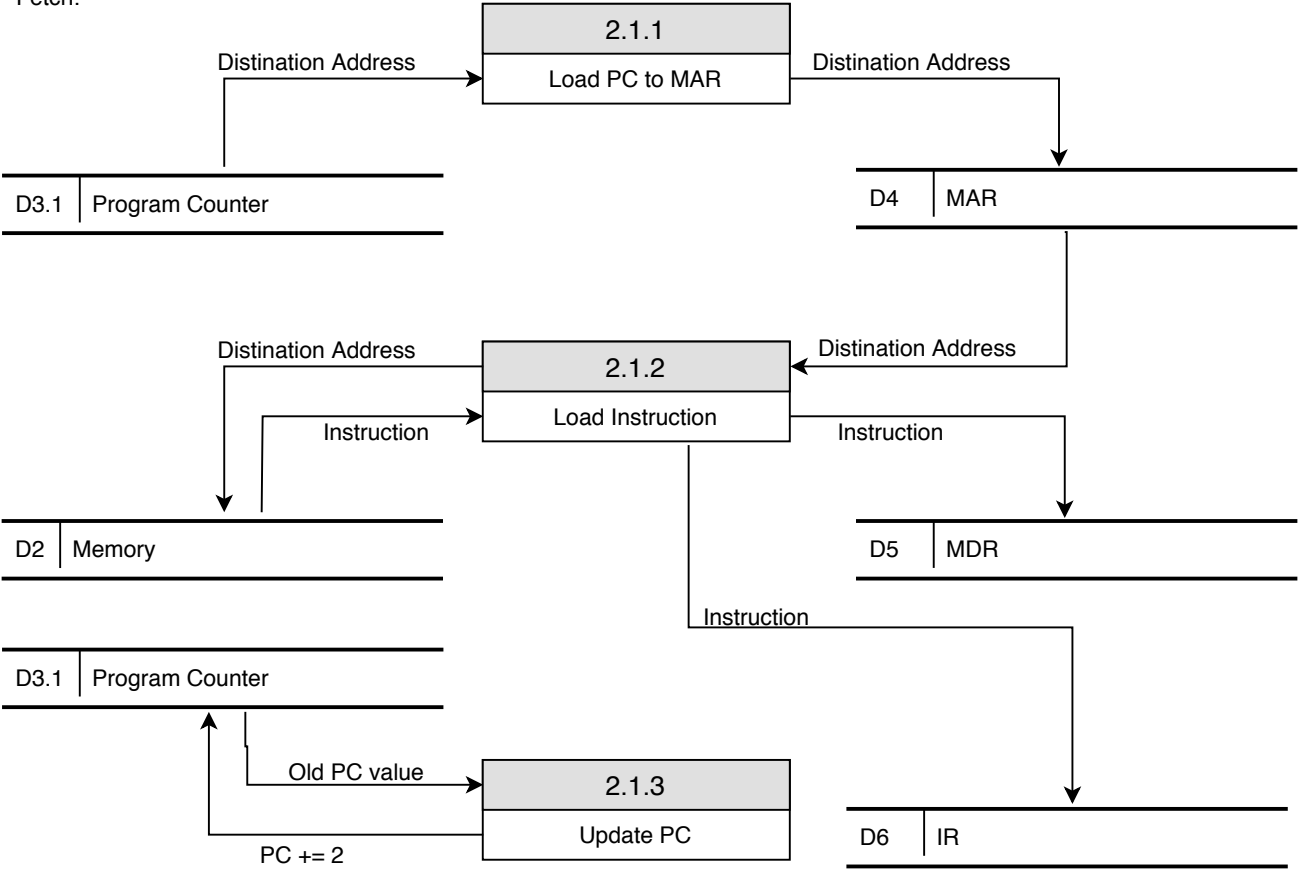
Level 1 Data Flow Diagram

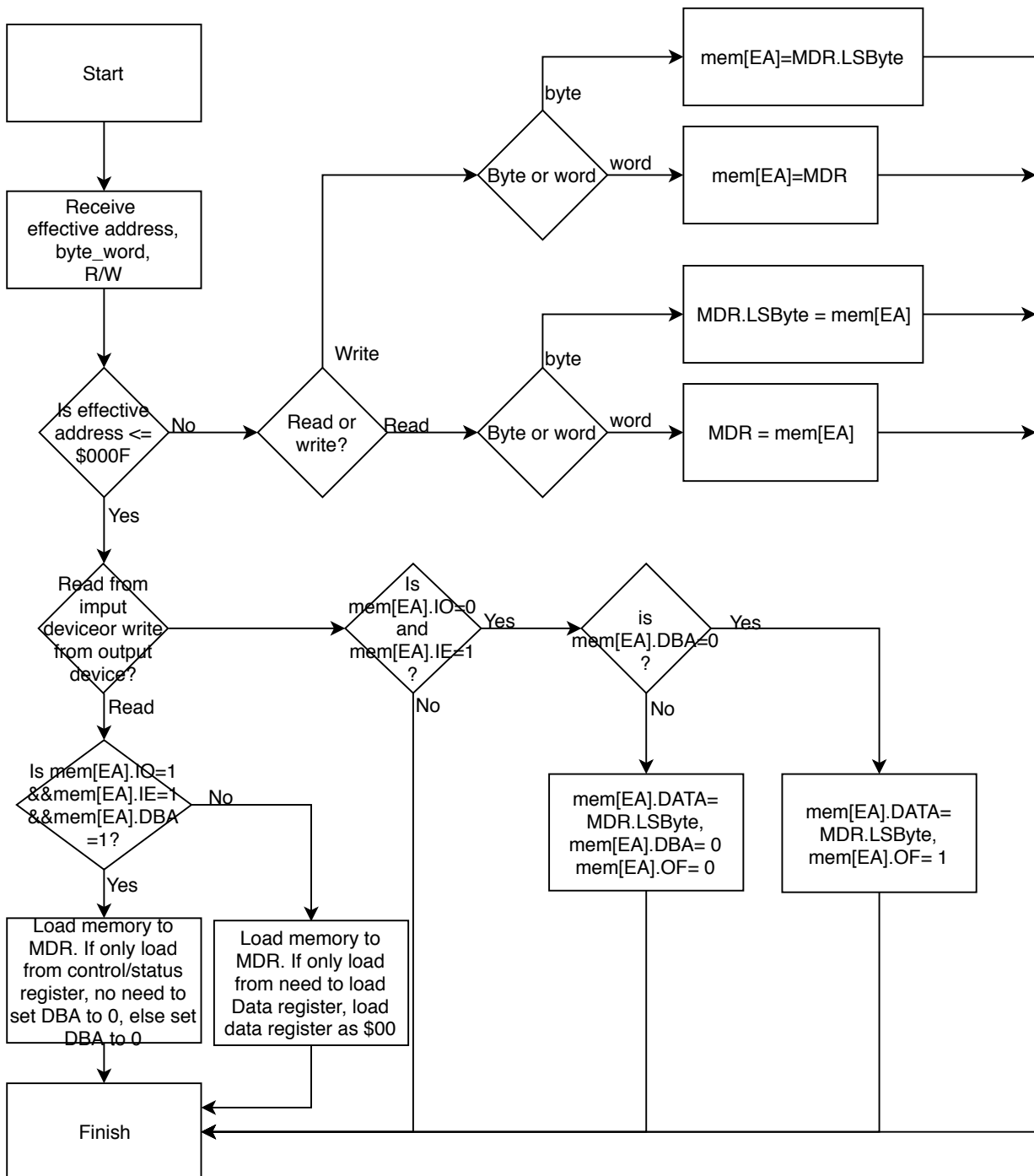


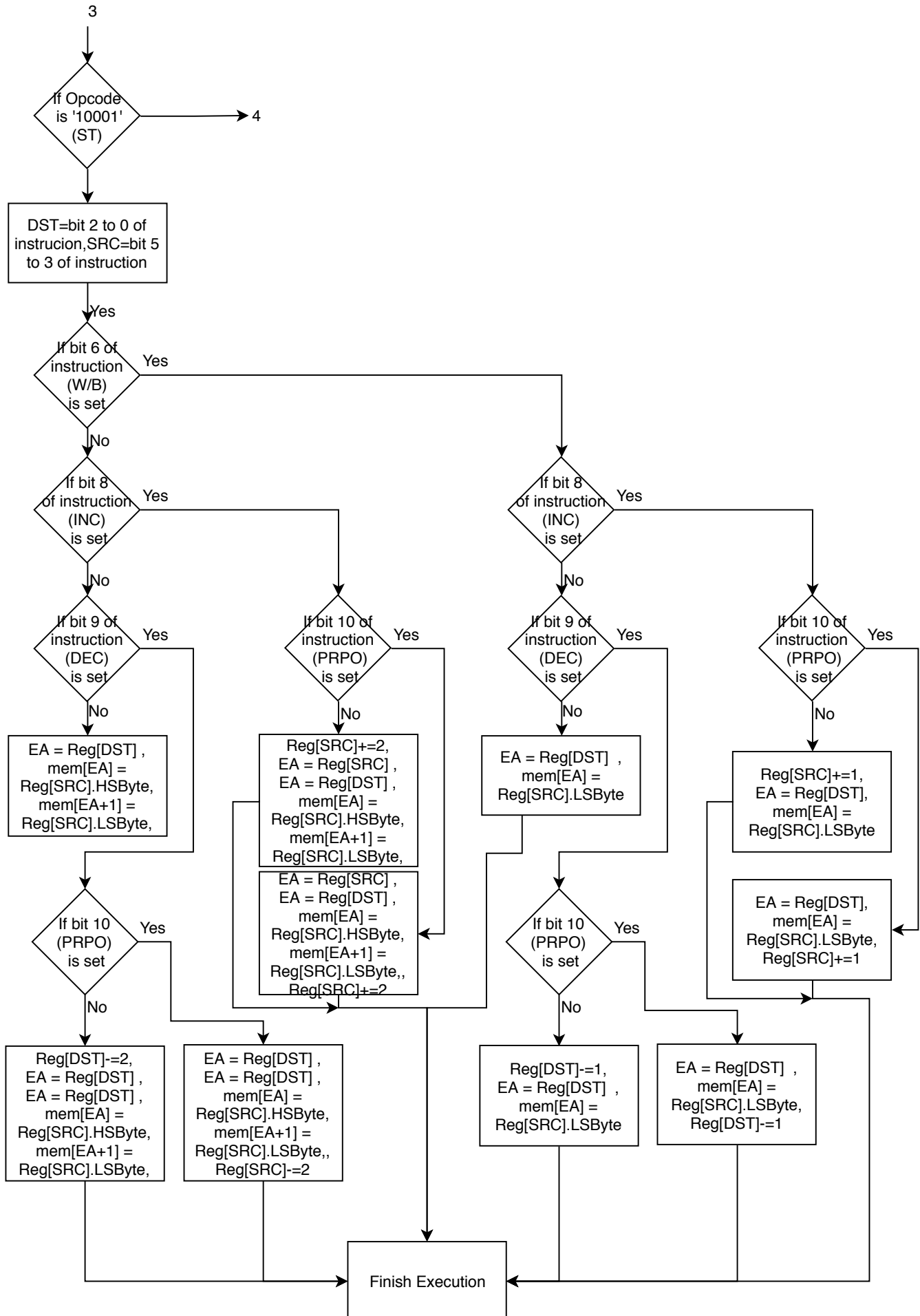
Data Flow Diagram
Debugger Initialization level 2

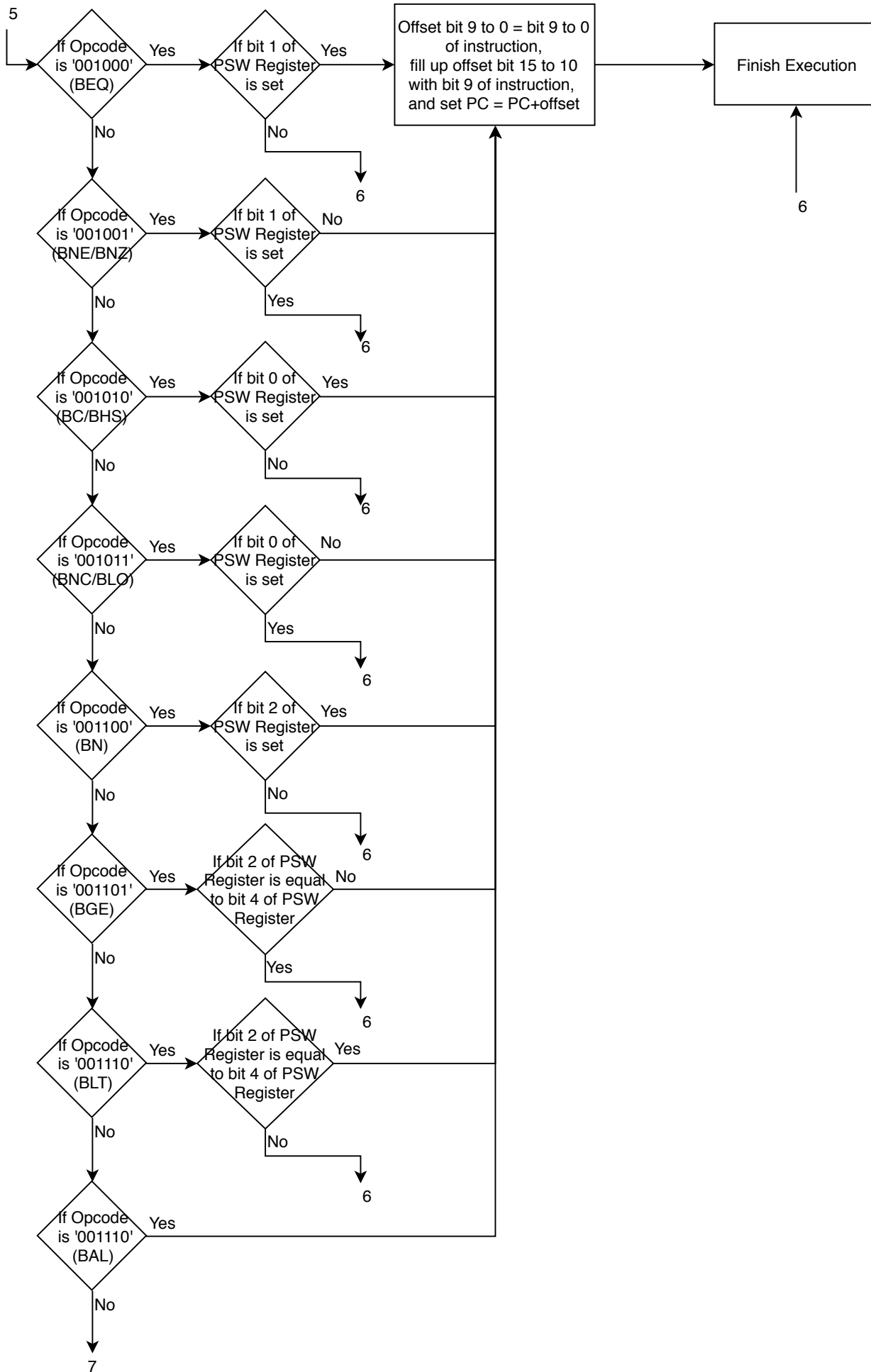


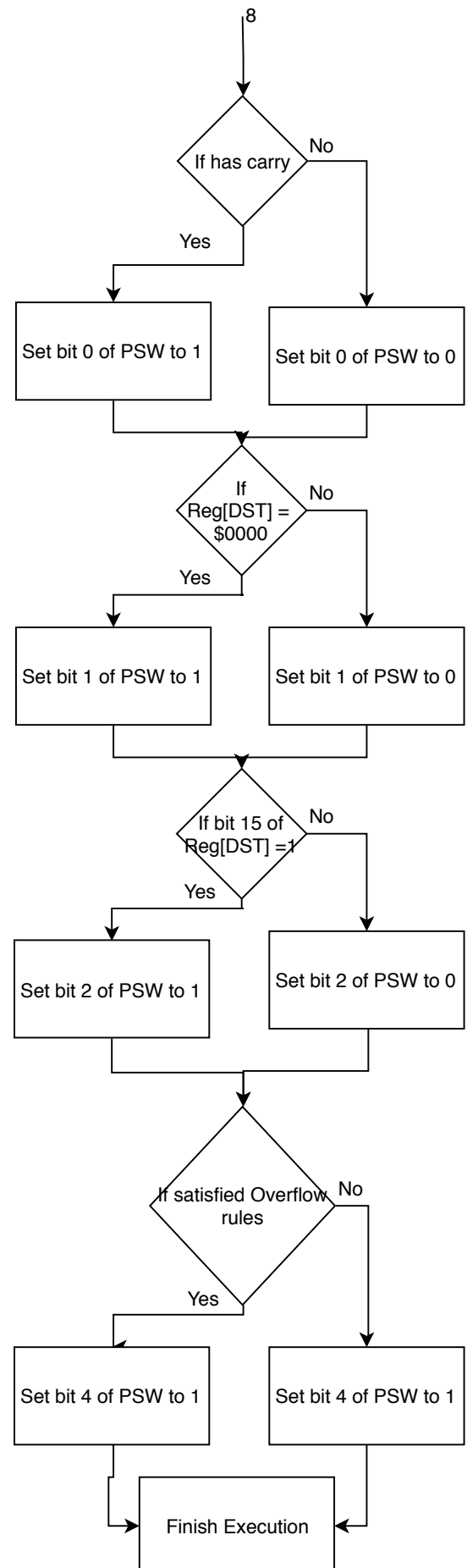
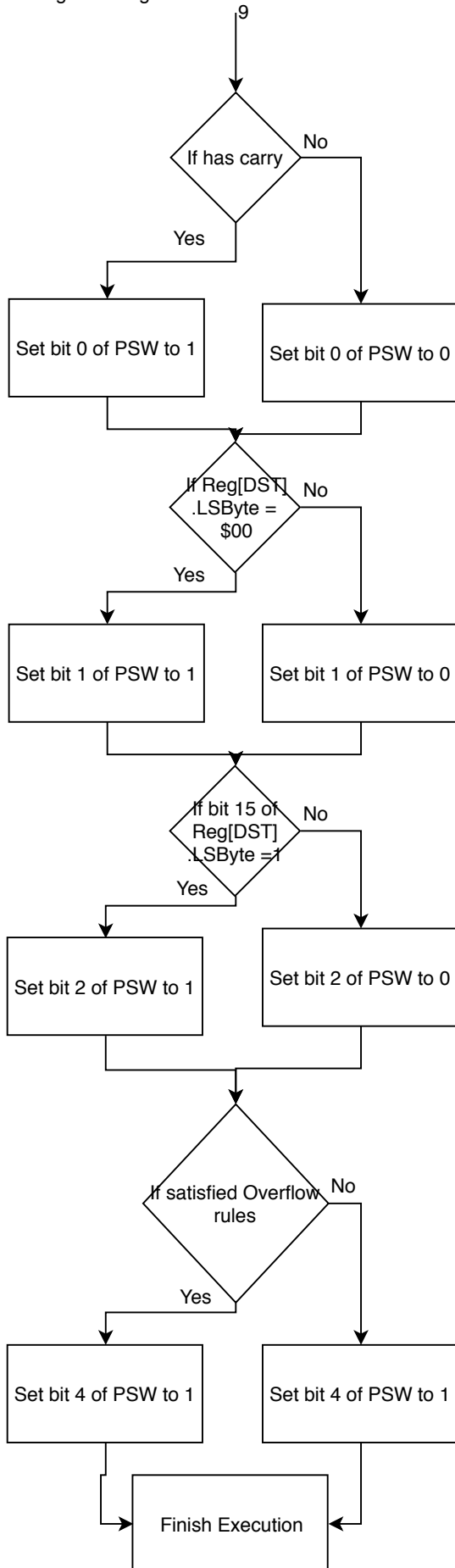










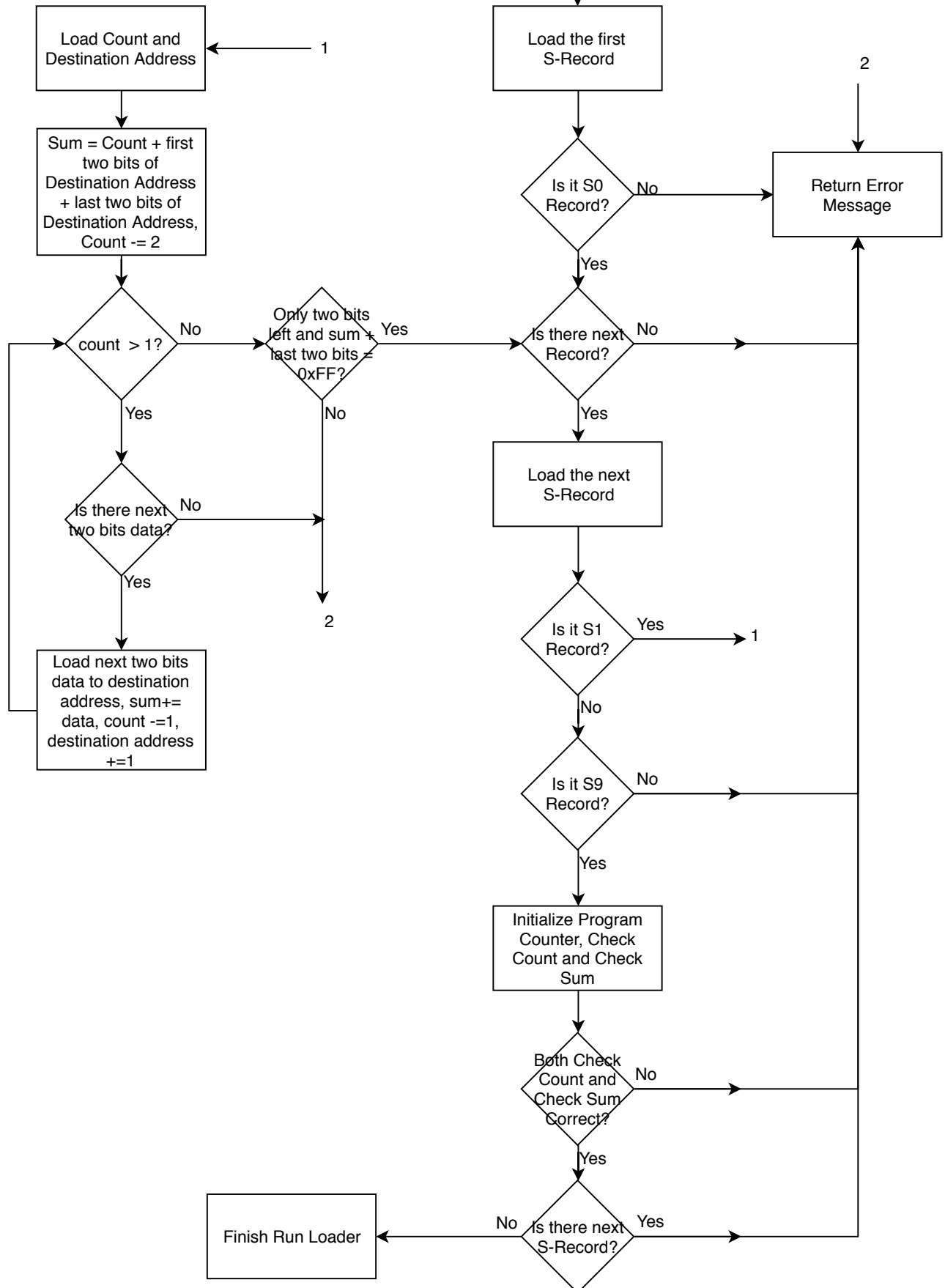


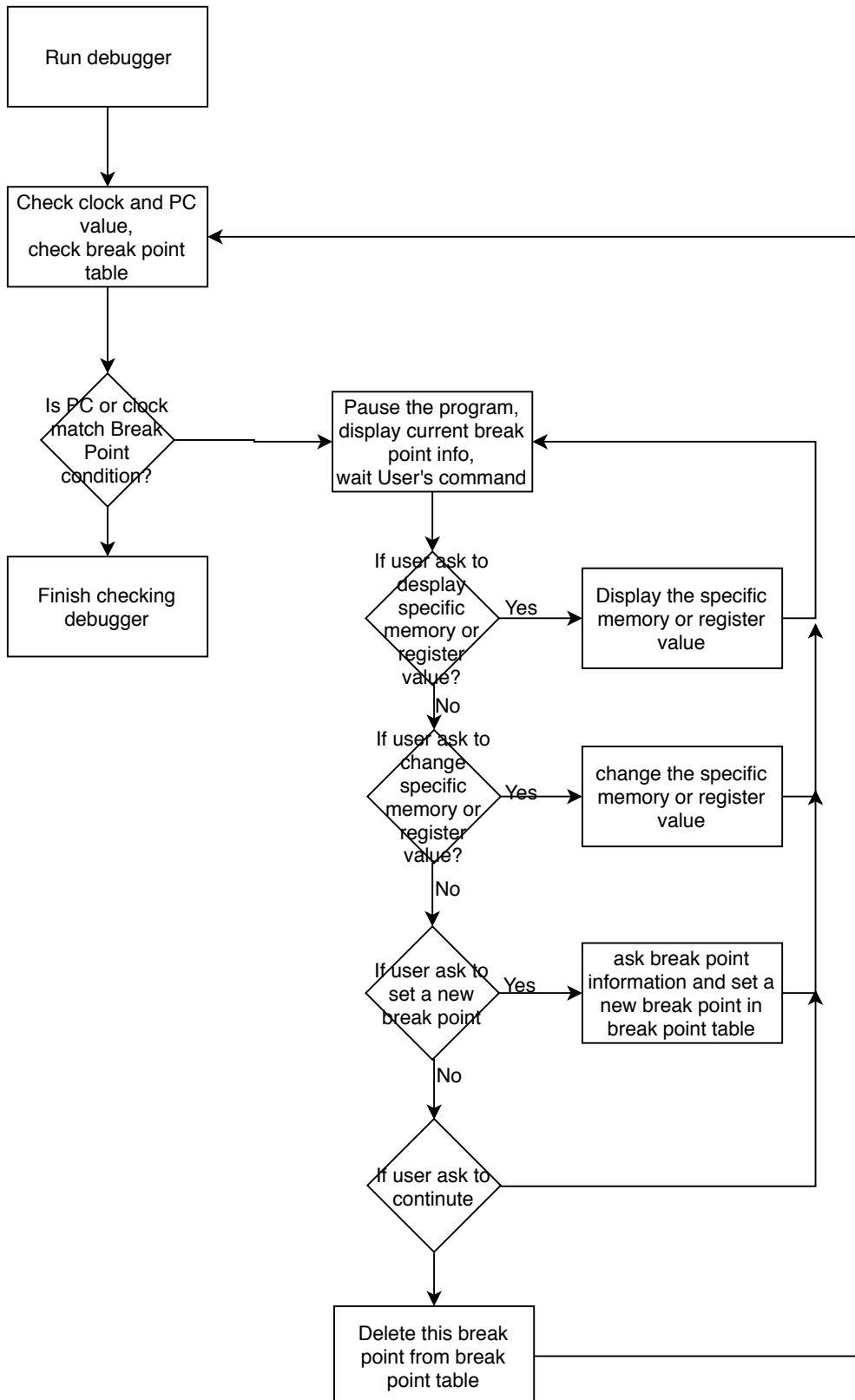
Overflow rules (from data dictionary):

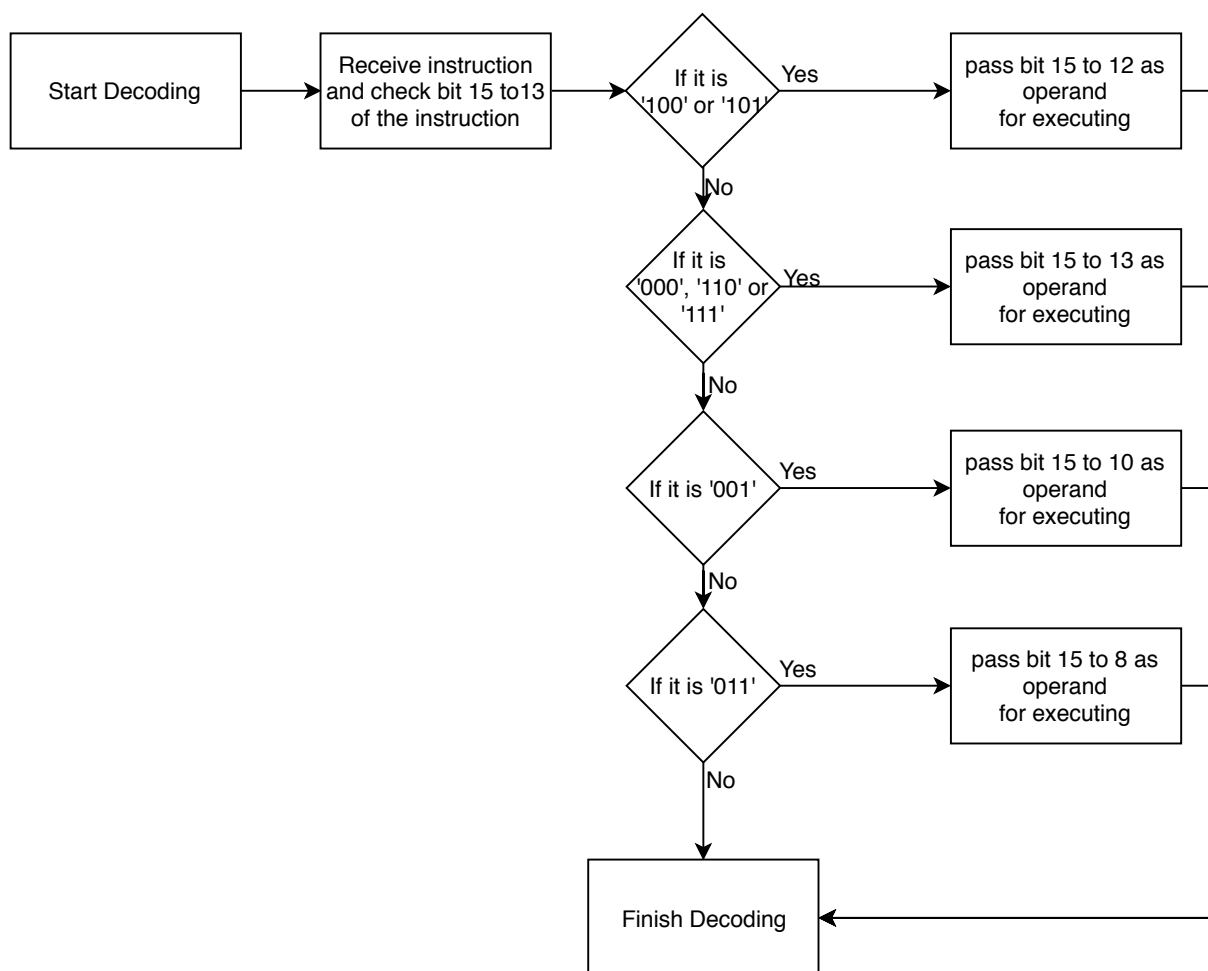
- For addition: set overflow if destination sign is same as source sign, but now same as result sign.
- For subtraction: set overflow if destination sign is not same as source sign, but result sign is same as source sign.

Process Flow Diagram of Run Loader

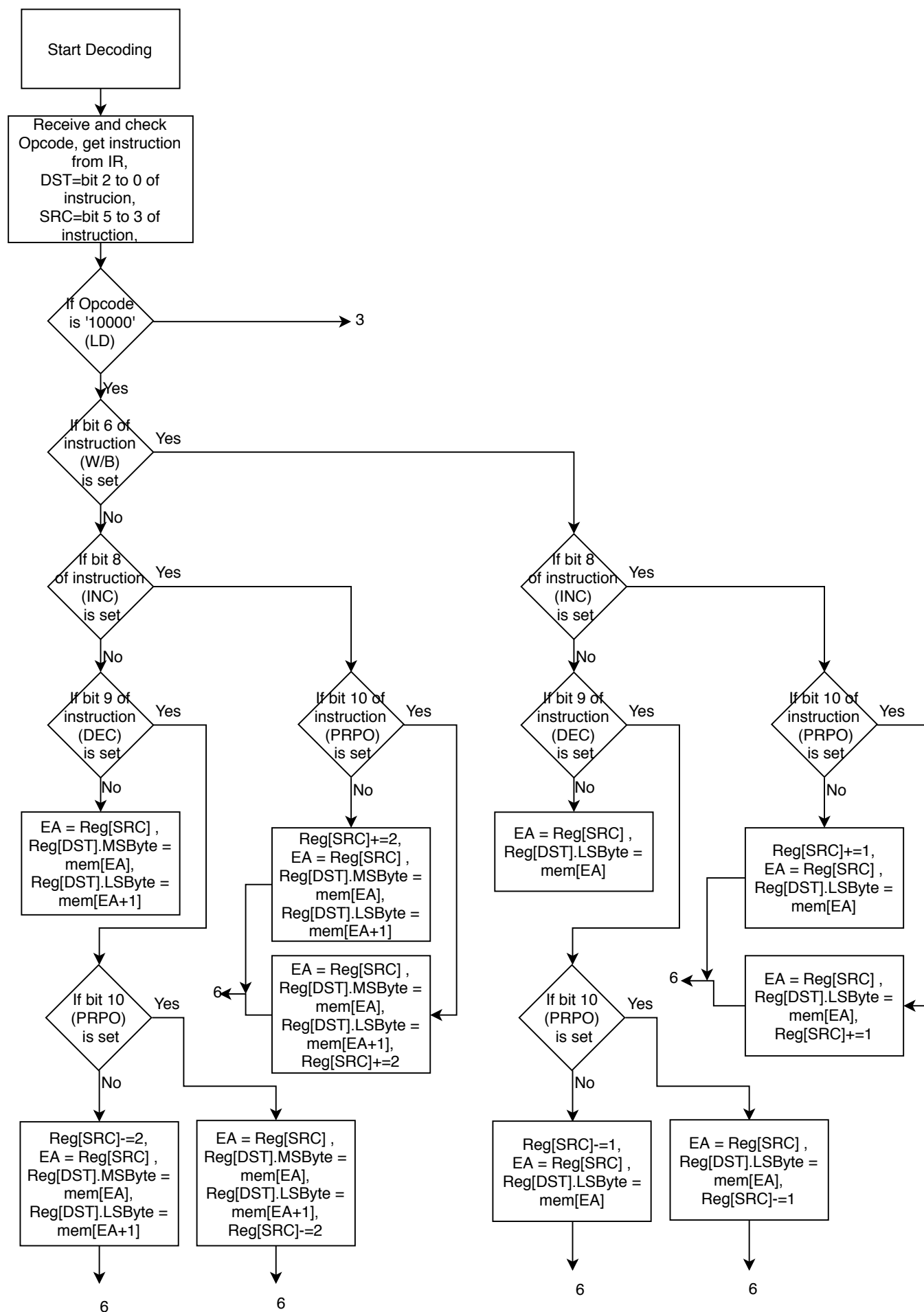
Consider we only work with S0, S1 and S9 Record in this assignment, I will not consider other records. Assuming there is only one S0 record and one S9 record allowed.

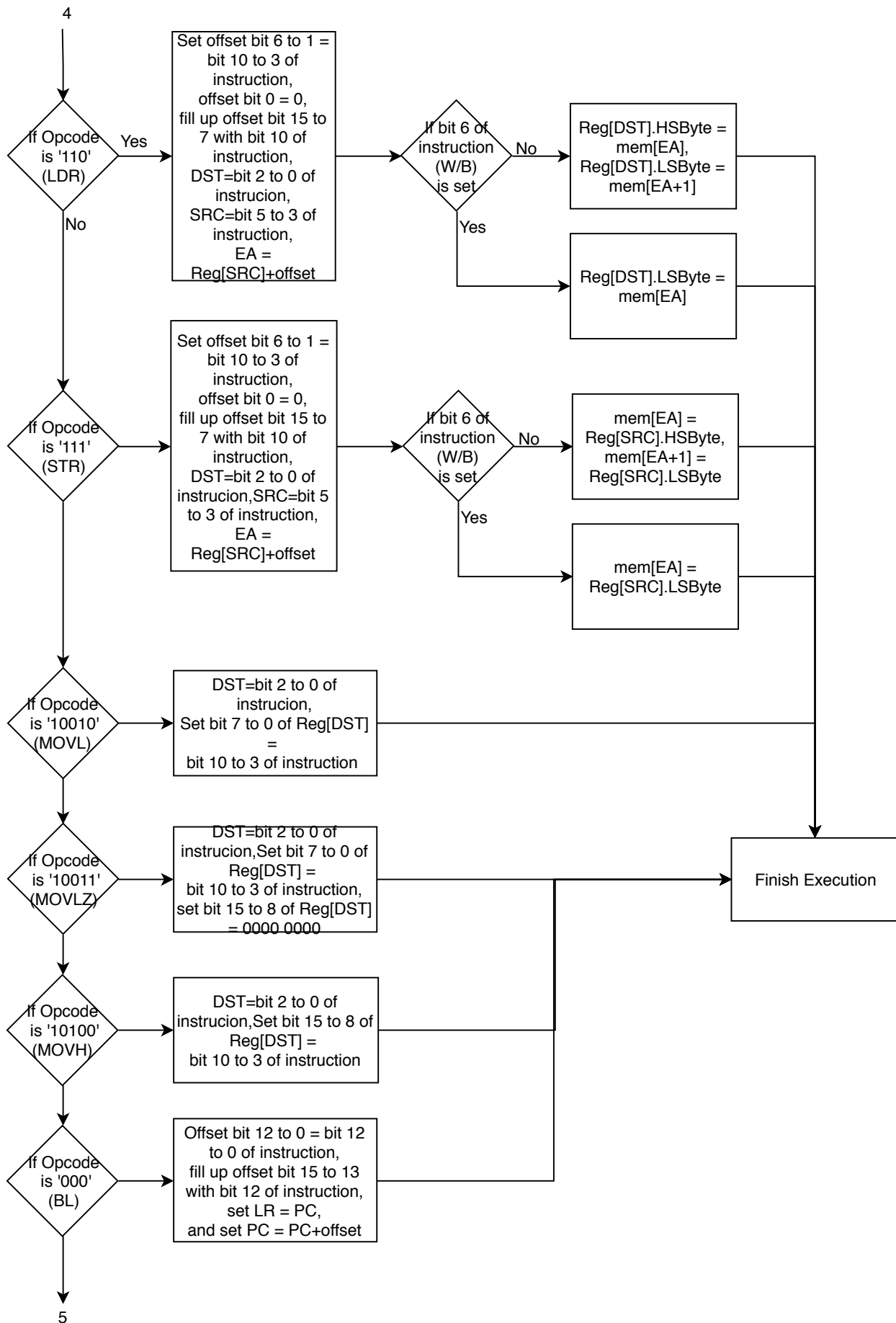


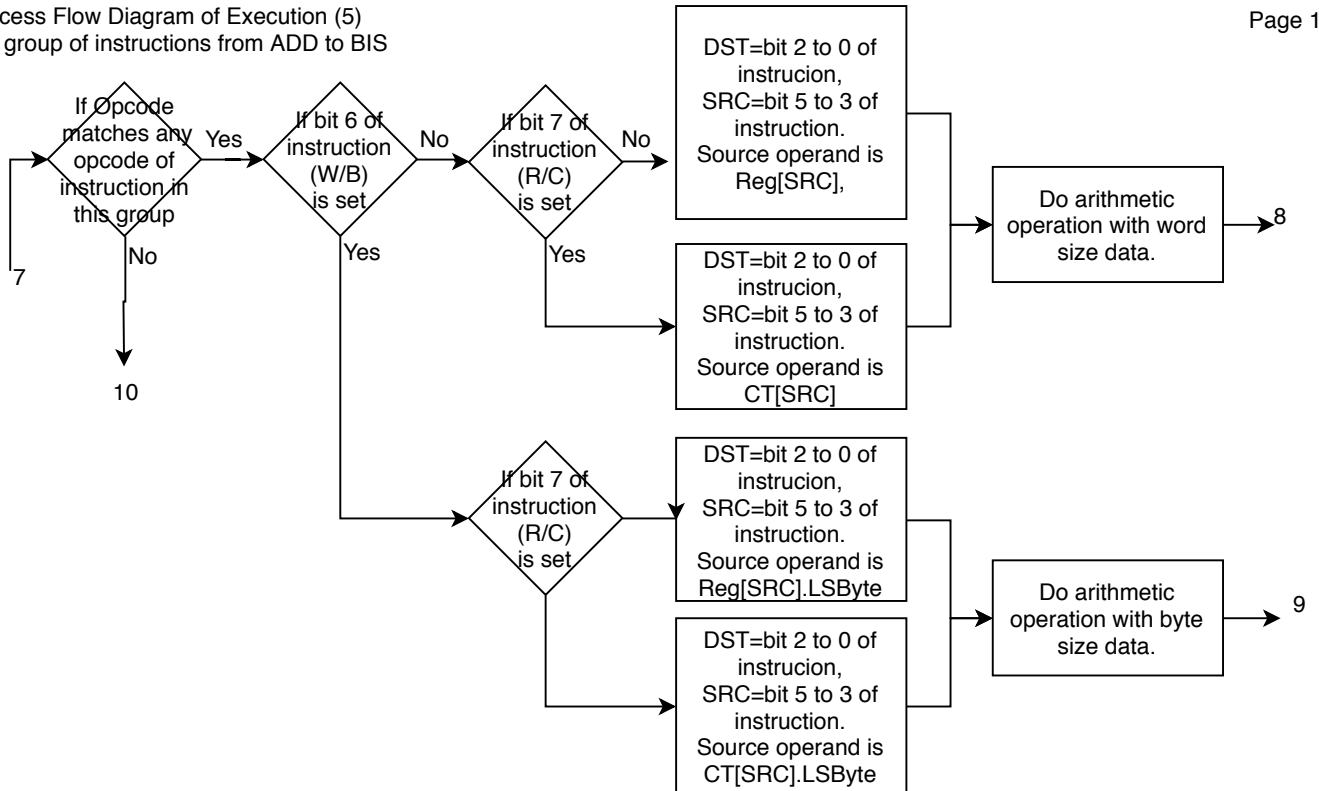




Process Flow Diagram of Execution (1)







Process Flow Diagram of Execution (6)
For instruction MOV and SWAP

