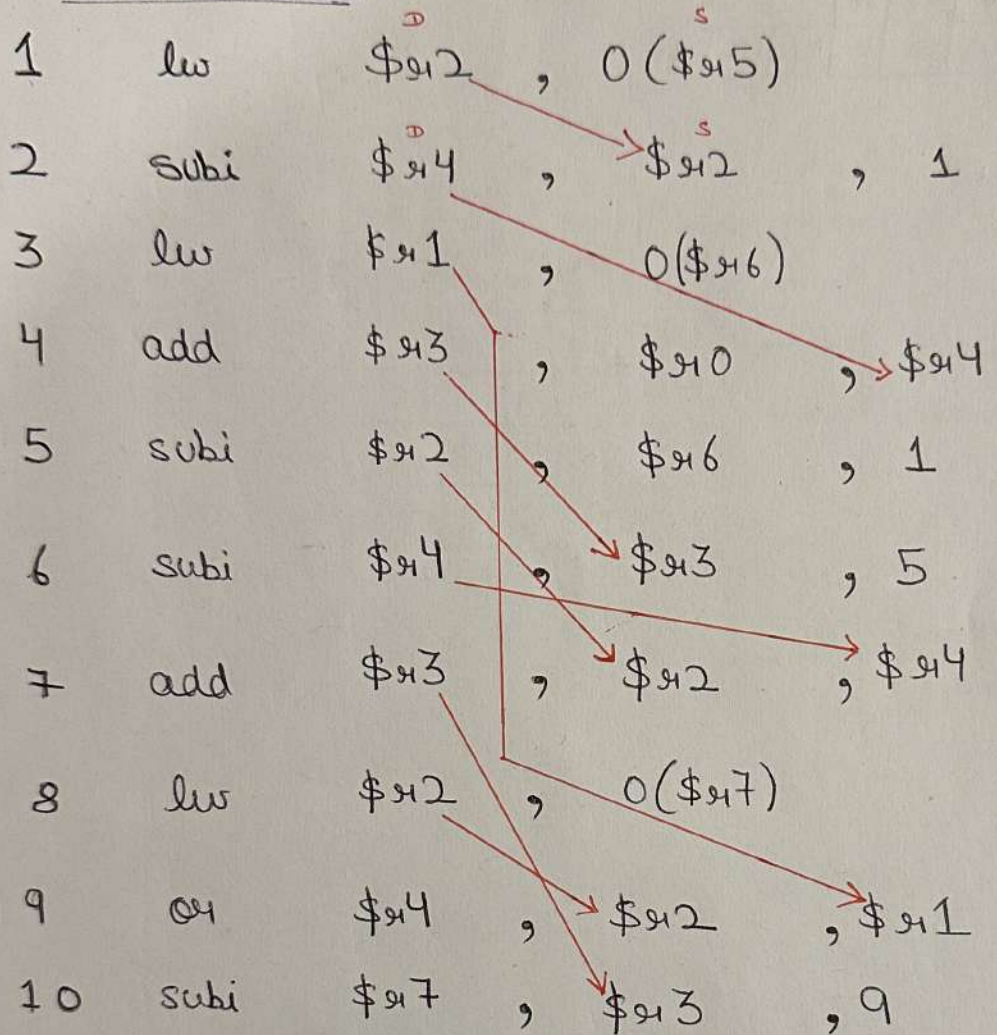
ASSIGNMENT #4 DIVYANK SHARMA

Checking Dependencies :-

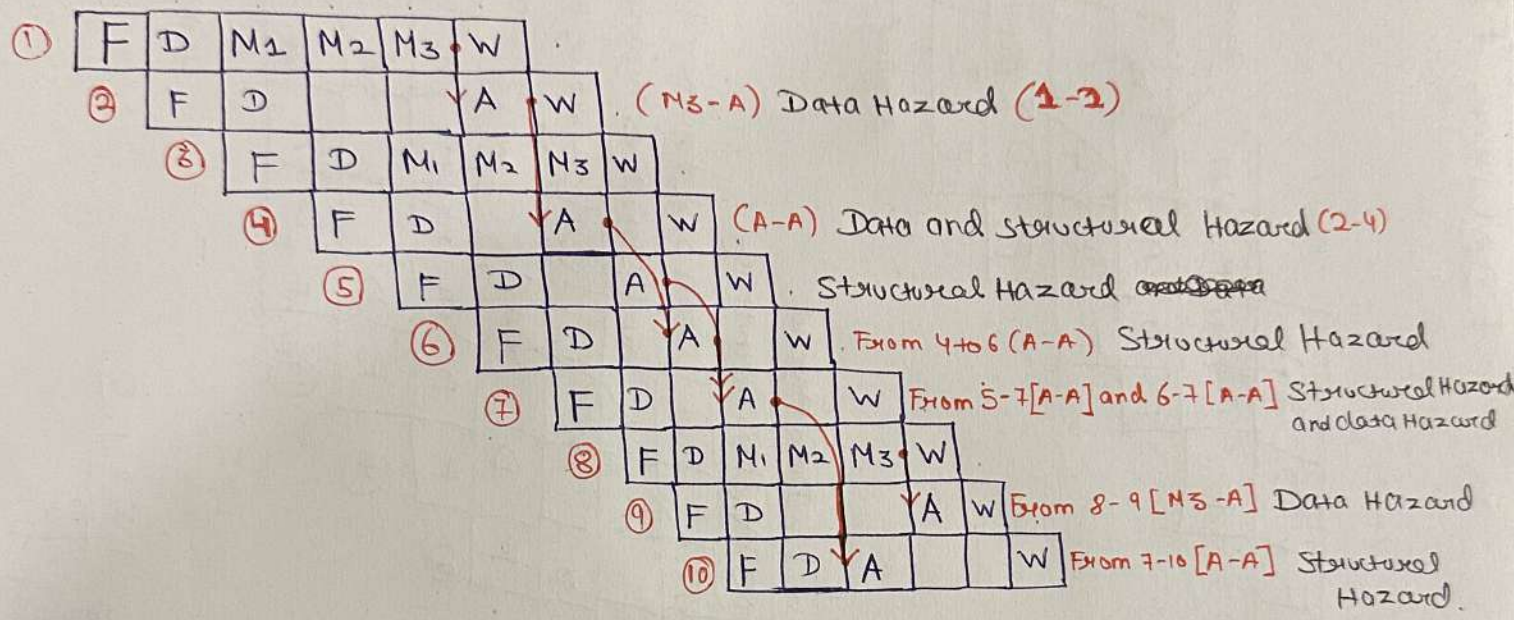


Divyank Sharma.

Architecture 5 => out-of-order (OOO) and inorder commit

ALU = 1 (A)

Memory Unit = 3 (M_1, M_2, M_3)



$$CPI = \frac{15}{\text{No of instructions}} = \frac{15}{10} = 1.5$$

1. From 1-2 in instruction 2 we took M3-A.
2. From 2-4 in instruction 4 we took A-A
3. From 4-6 in instruction 6 we took A-A
4. From 5-7 and 6-7 in instruction 7 we took A-A for both as both are ALU.
5. From 8-9 in instruction 8 we took M3-A
6. From 7-10 in instruction 10 we took A-A

Because of in-order commit none of the instruction can commit before the previous instruction.