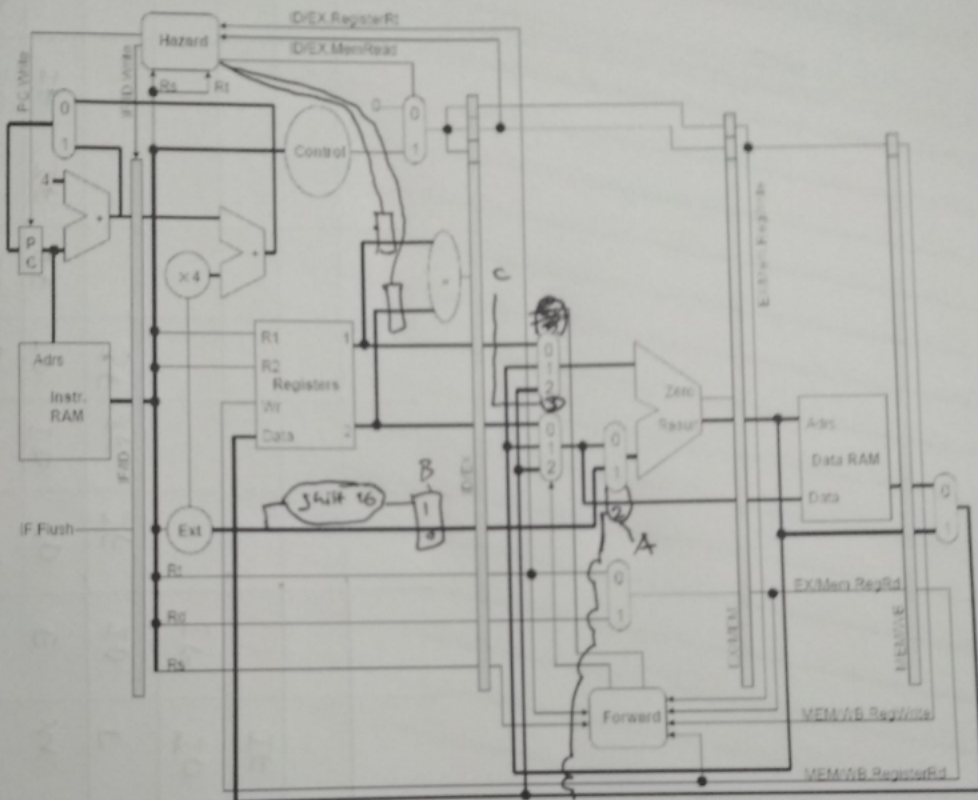


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Answer:



EQUATIONS:

$$\begin{aligned} \text{I/O Ex} & \cdot \text{opcode} = \text{LUI} \\ \text{I/O Ex} & \cdot \text{register} \\ \text{I/O Ex} & \cdot \text{rs} = \text{rs} \end{aligned}$$

$$\begin{aligned} \text{Mem/WB} & \cdot \text{rs} \neq 0 \\ \text{and} \\ \text{I/O Ex} & \cdot \text{opcode} = \text{store} \\ \text{Mem/WB} & \cdot \text{rs} = \text{I/O Ex} \cdot \text{rt} \\ \text{Mem/WB} & \cdot \text{register} \\ \text{Mem/WB} & \rightarrow \text{A} = 2 \end{aligned}$$

Shreyas Bhat leaves, 2018A745119P

Cycle	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Add	If	ID	E	M	wB	F	M	wB									
Dcl		If	ID	ID	ID	ID	ID	ID	E	M	wB						
Lw			If	If	If												
SUB						If	If	If	ID	E	M	wB					
SU									If	ID	ID	IF E	ADD	wB			
LW										If	IF	ID	E	M	wB		
RNEZ												If	ID	ID	ID	E	M