

$T_0 : \text{Tmp} \leftarrow \text{PC}; \text{MAR} \leftarrow \text{PC};$

$T_1 : \text{IR} \leftarrow \text{Mem}[\text{MAR}]; \text{PC} \leftarrow \text{Tmp} + 1;$

$T_2 : \text{ID}$

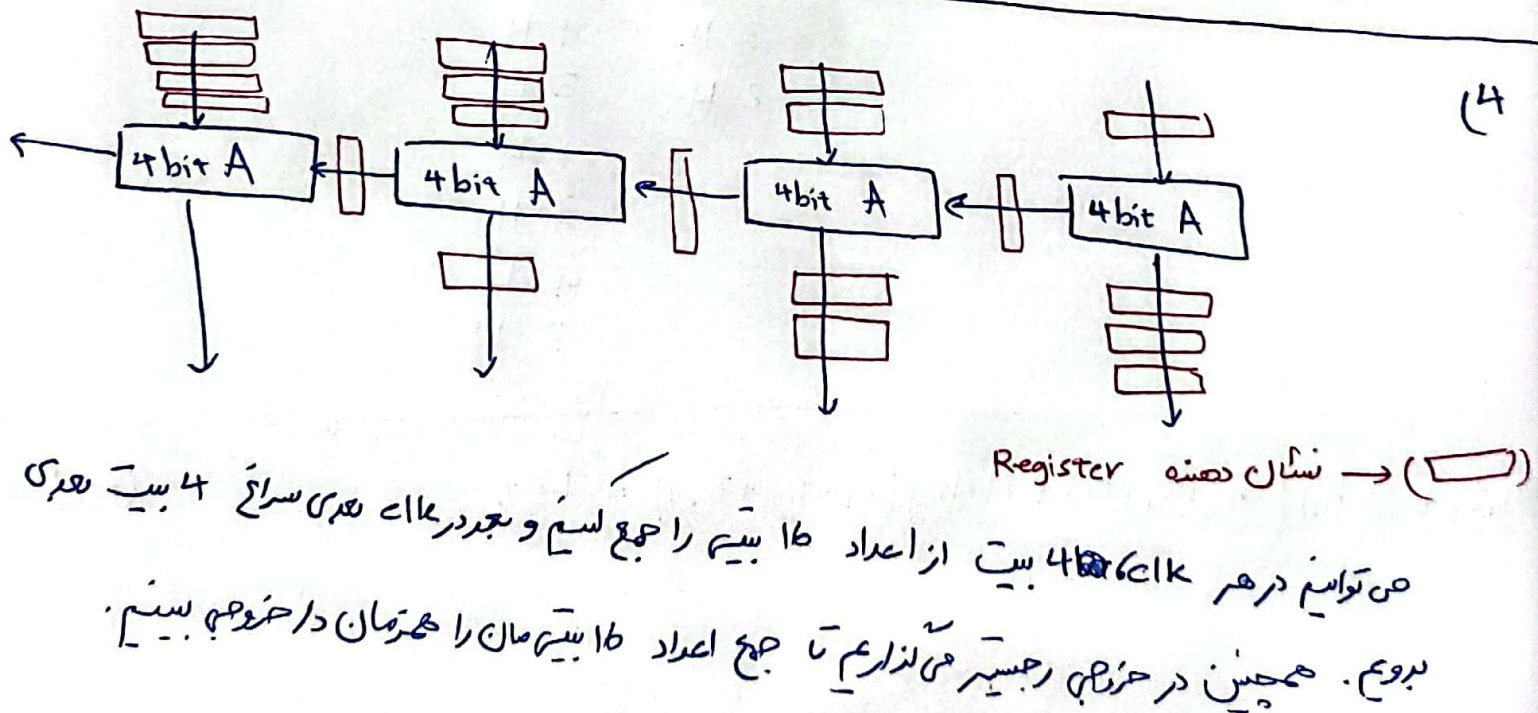
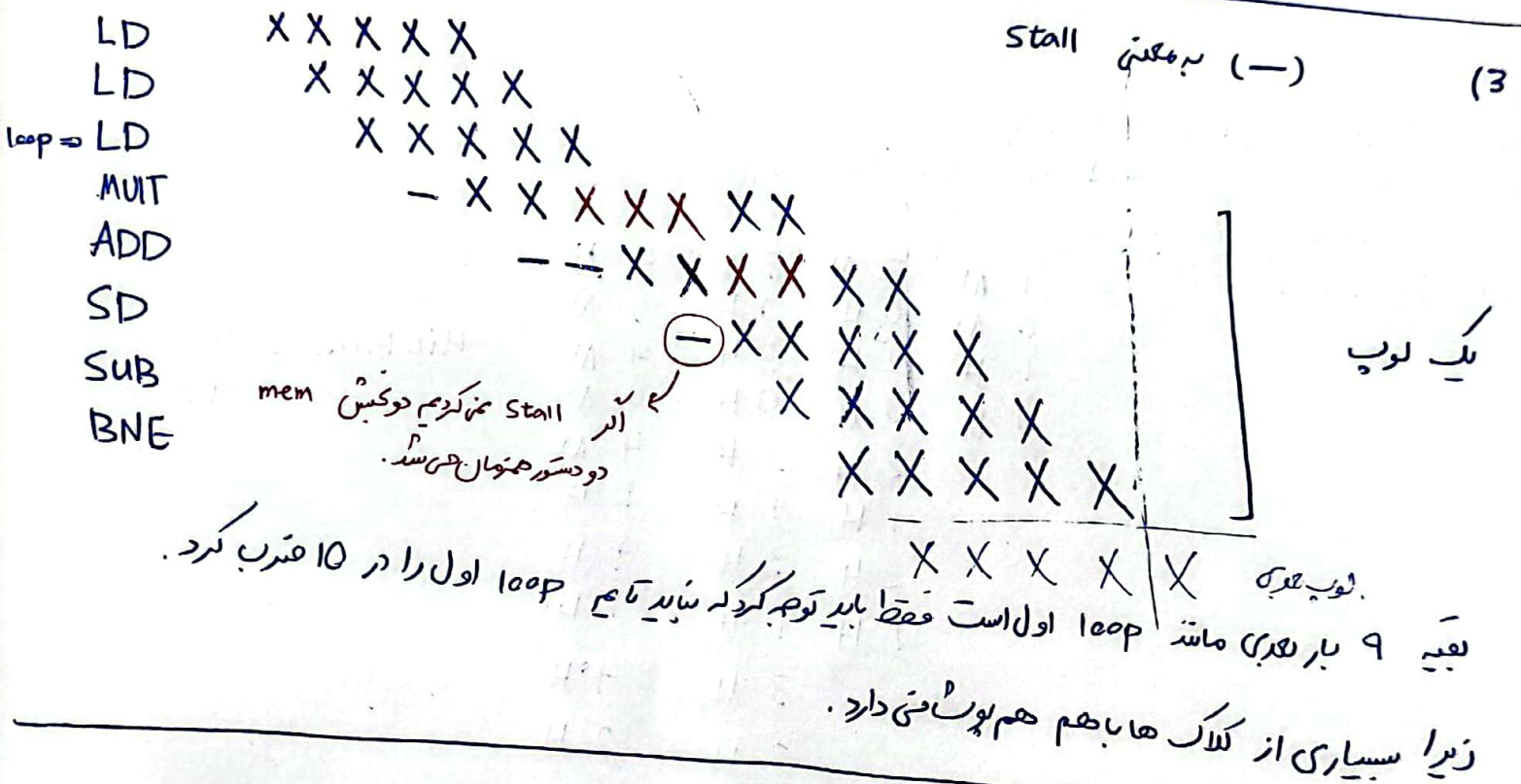
$T_3 : \text{MAR} \leftarrow \text{IR (adr)}$

$T_4 : \text{MDR} \leftarrow \text{Mem}[\text{MAR}]$

$T_5 : \text{Tmp} \leftarrow \text{NOT Tmp}$

$T_6 : \text{MDR} \leftarrow \text{Tmp} + 1$

$T_7 : \text{Mem}[\text{MAR}] \leftarrow \text{MDR}$



دسترسها

سوال 5 :

$i=0$

$i=1 \quad j=0 \rightarrow (1 \rightarrow 0 \rightarrow 1 \rightarrow 0)$

$i=2 \quad j=0,1 \rightarrow (2 \rightarrow 0 \rightarrow 2 \rightarrow 0 \rightarrow 2 \rightarrow 1 \rightarrow 2 \rightarrow 1)$

$i=3 \quad j=0,1,2 \quad (\dots)$

$i=4 \quad j=0,1,2,3$

1 M	2 M	3 M	4 M
0 M	0 H	0 H	0 M
1 H	2 H	3 H	4 M
0 H	0 H	0 H	0 M
	2 H	3 H	4 M
	1 H	1 H	1 H
	2 H	3 H	4 H
	1 H	1 H	1 H
		3 H	4 H
		2 H	2 H
		3 H	4 H
		2 H	2 H
			4 H
			3 H
			4 H
			3 H

$$\text{Hit Rate} = \frac{31}{40}$$

$$h_1 t_1 + (1-h_1) [h_2 (t_1+t_2) + (1-h_2) (t_1+t_2+t_3)] = 1.5t$$

سوال 6)