

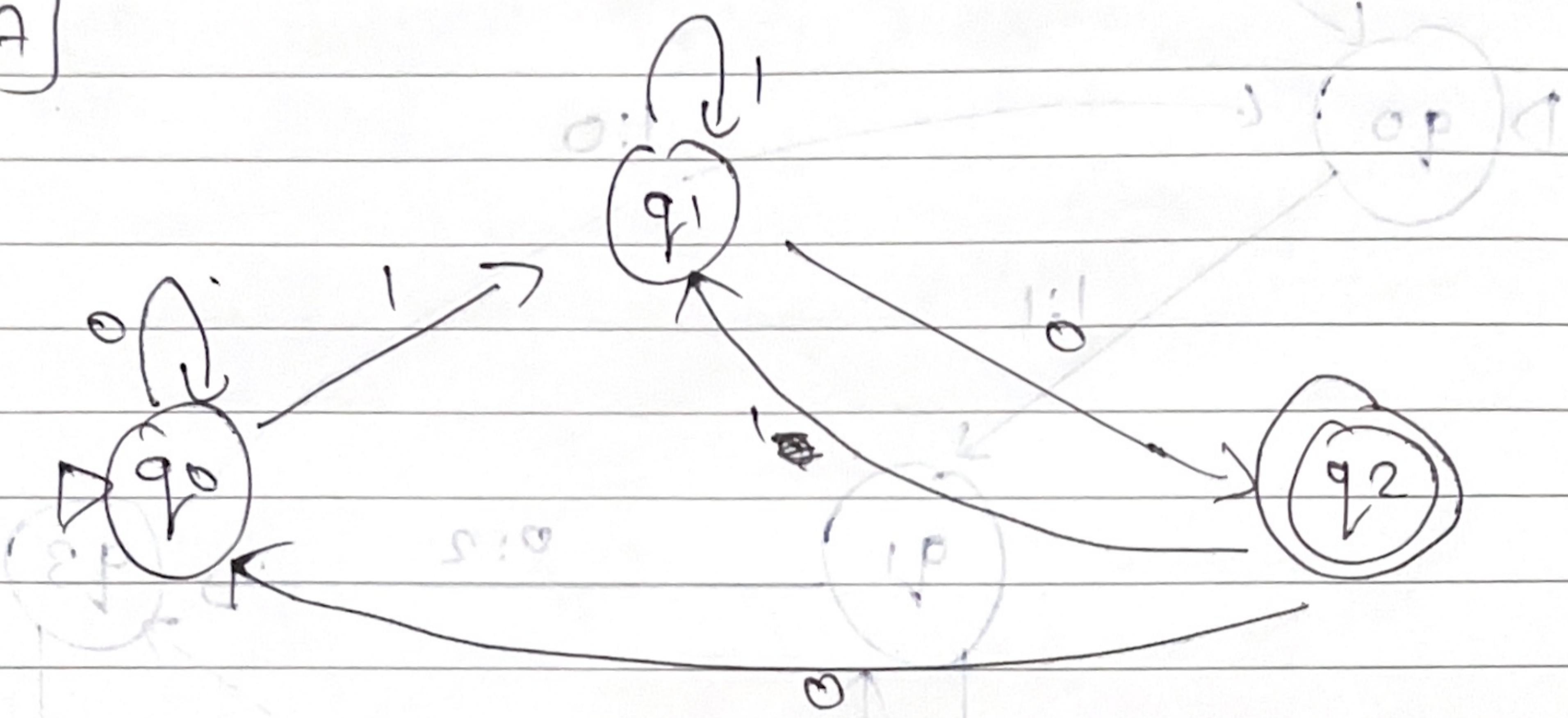
[NFA]

# DEFINITION OF "ig"

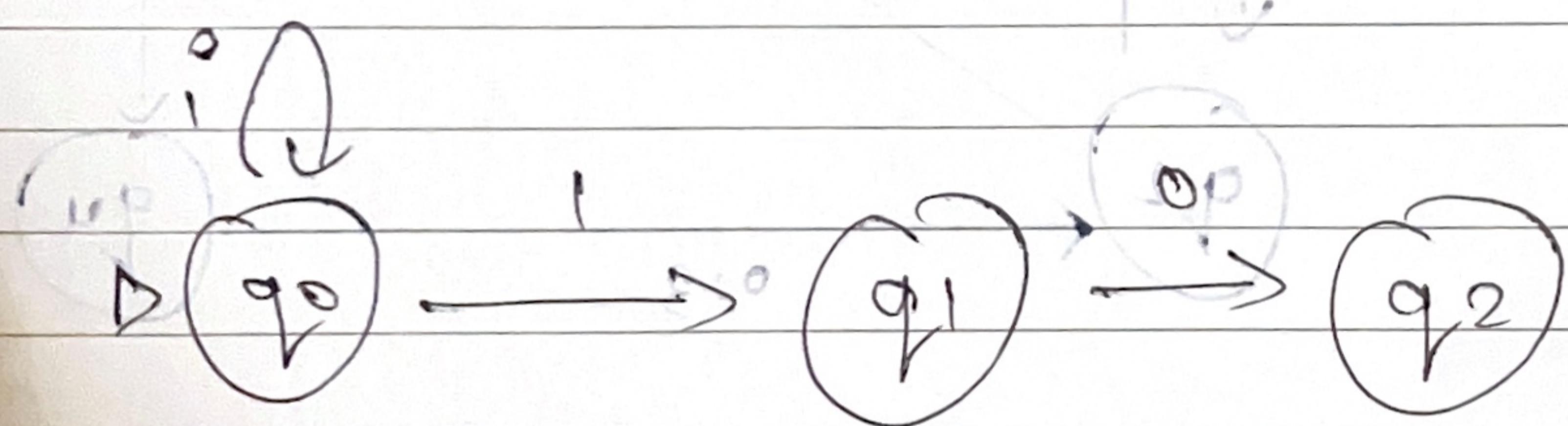
M	T	W	T	F	S	S
Page No.:	YOUVA					
Date:						

DESIGN [NFA] ACCEPTING STRINGS  
ENDING WITH "10"

[DFA]



[NFA]



0 | 1

q0

q1

{q0, q1}

q2

q2

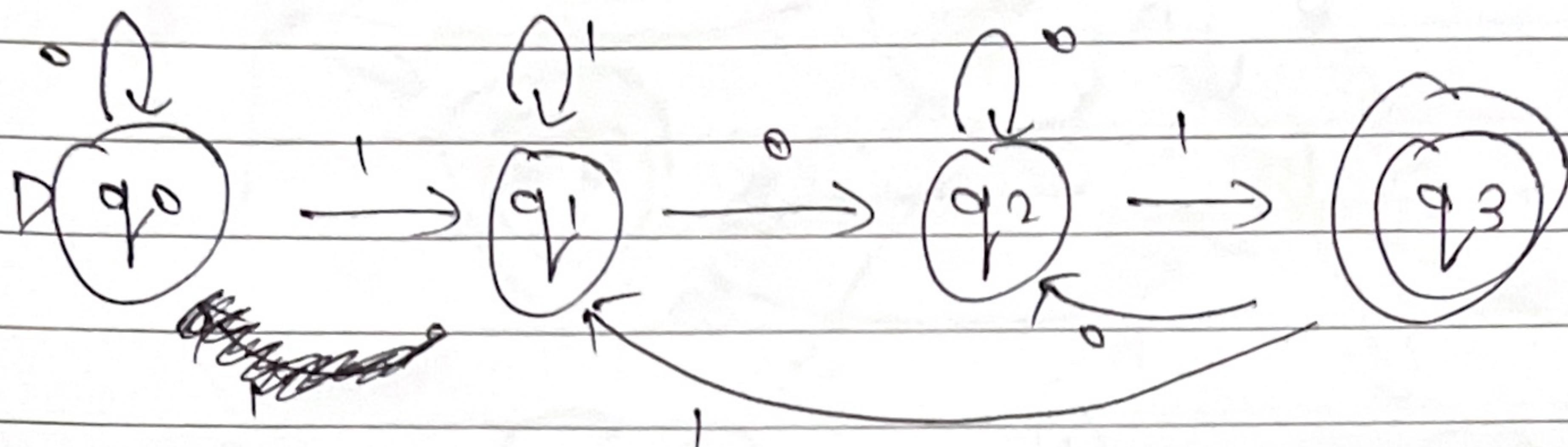
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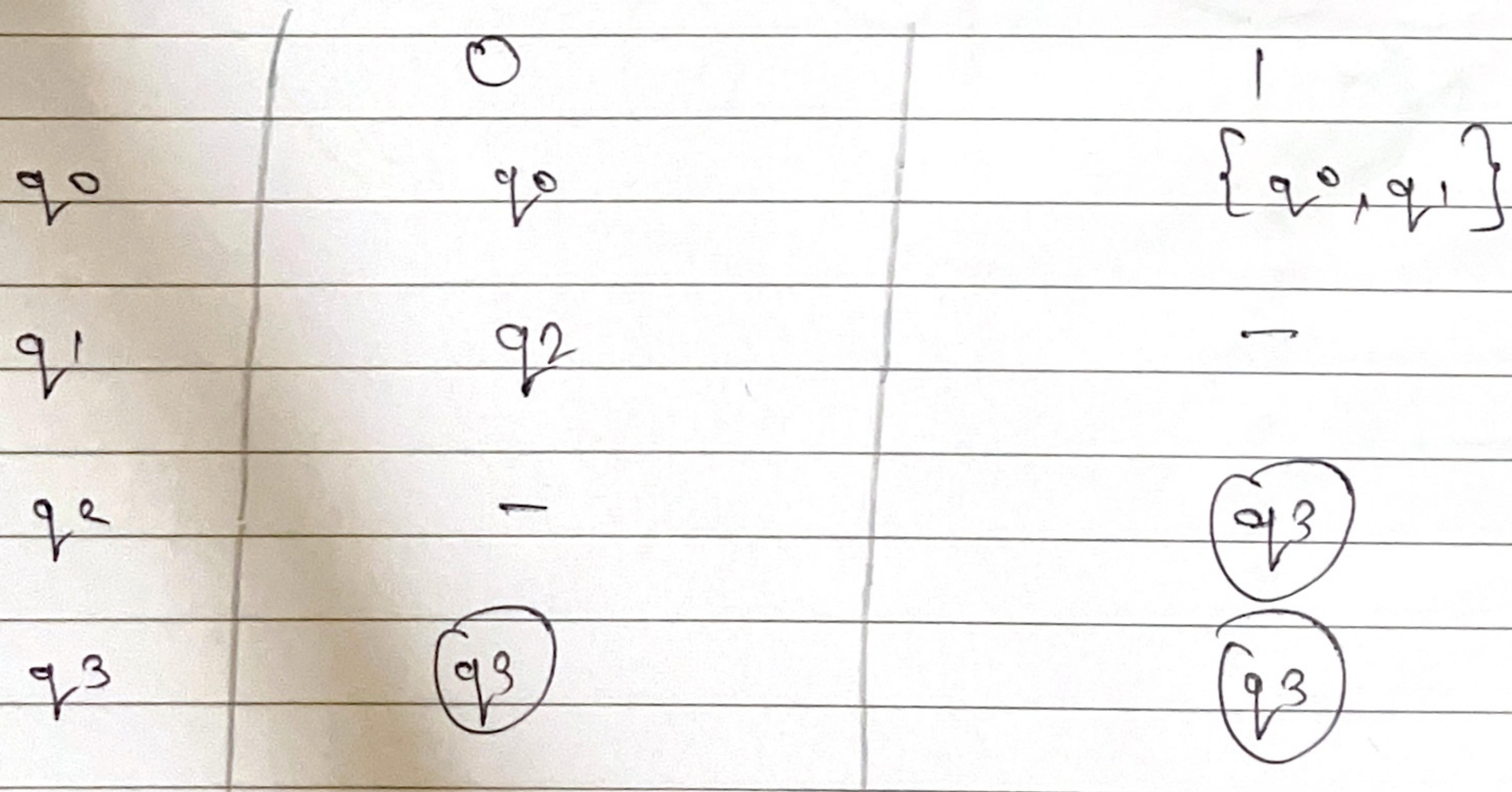
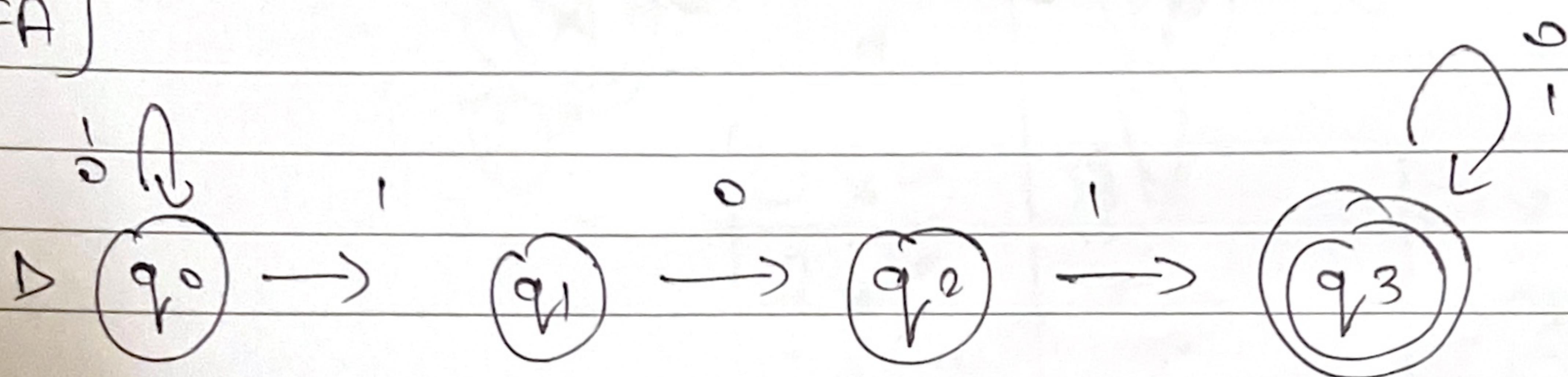
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- DESIGN [NFA] FOR SEARCHING "101" -

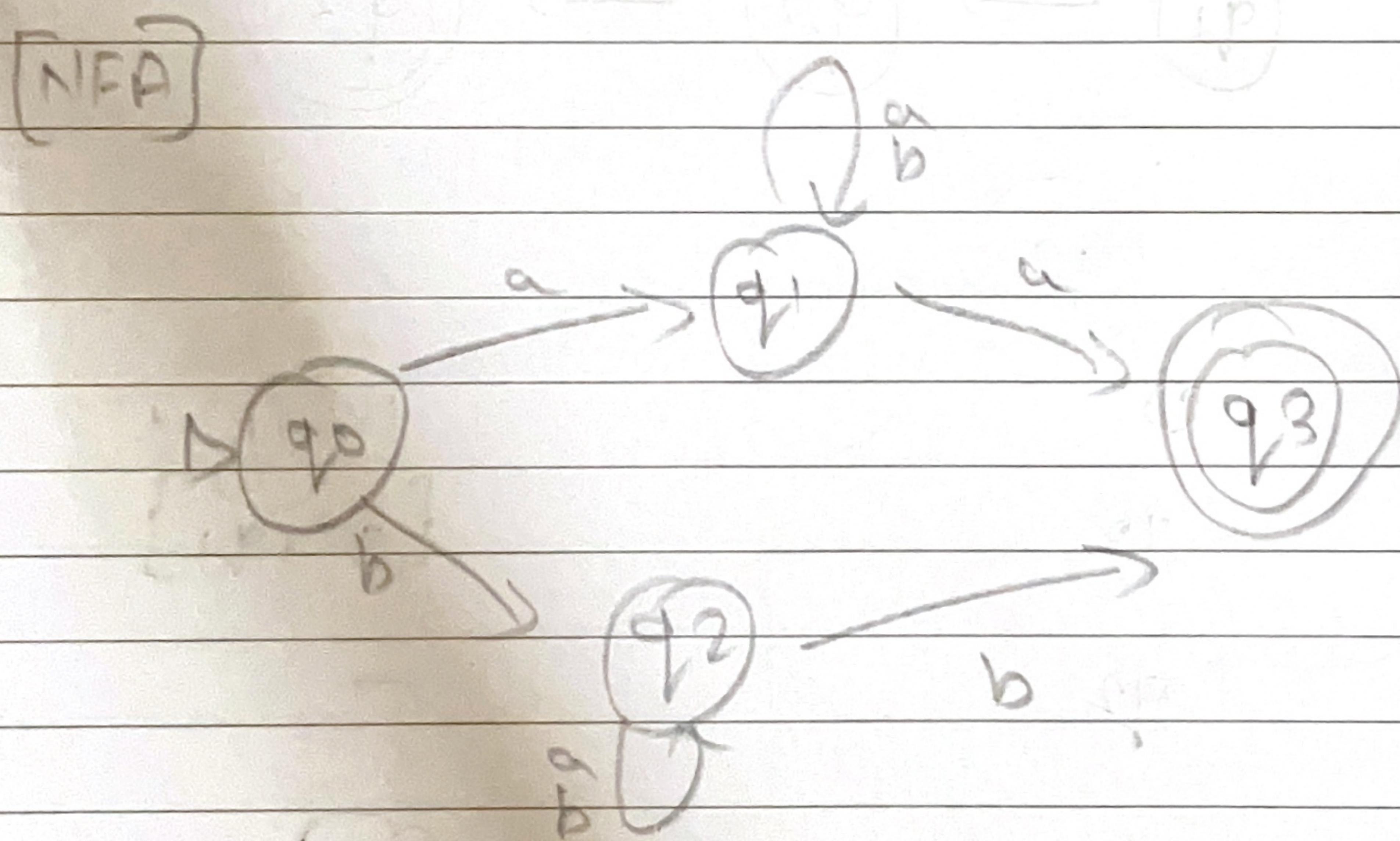
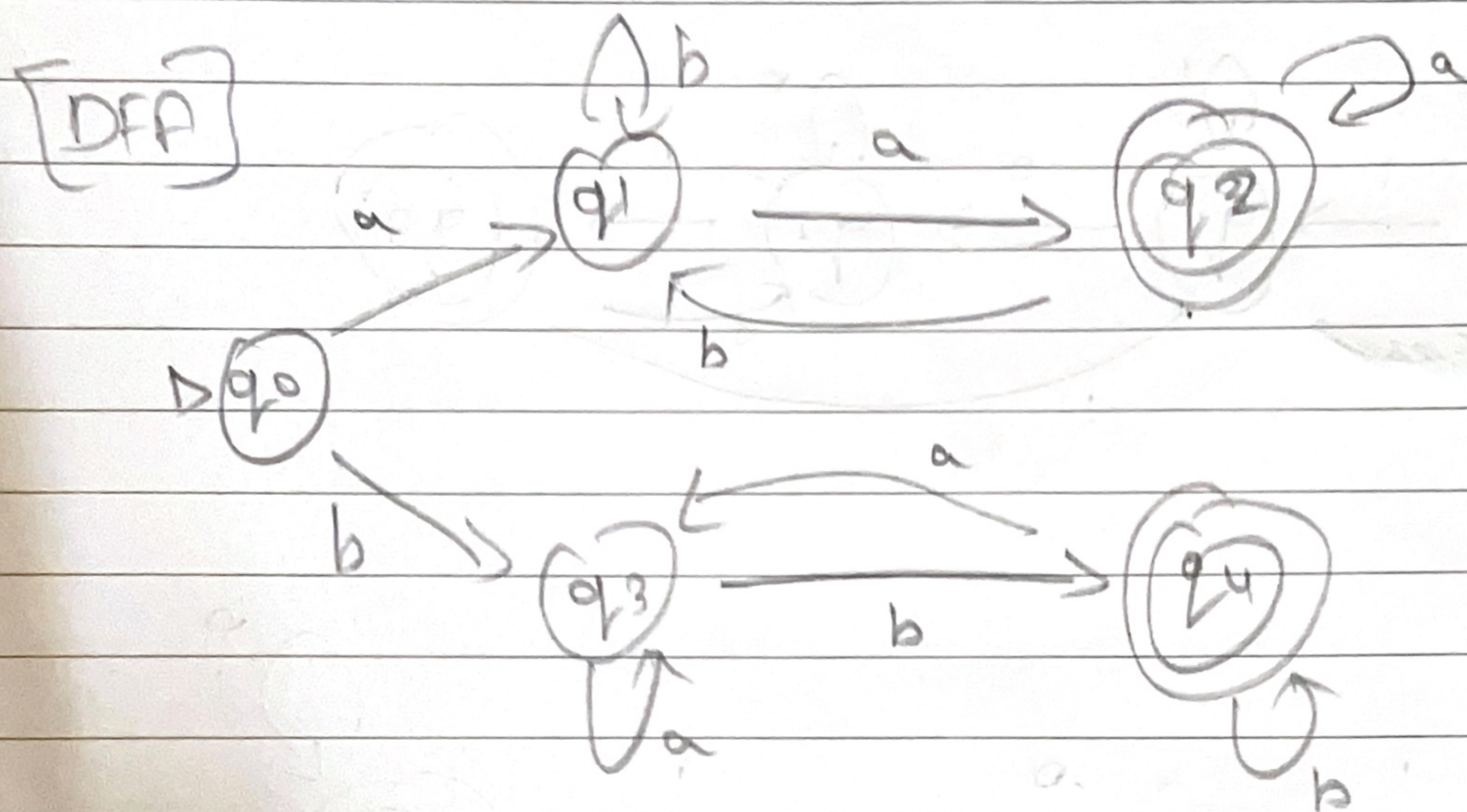
[DFA]



[NFA]

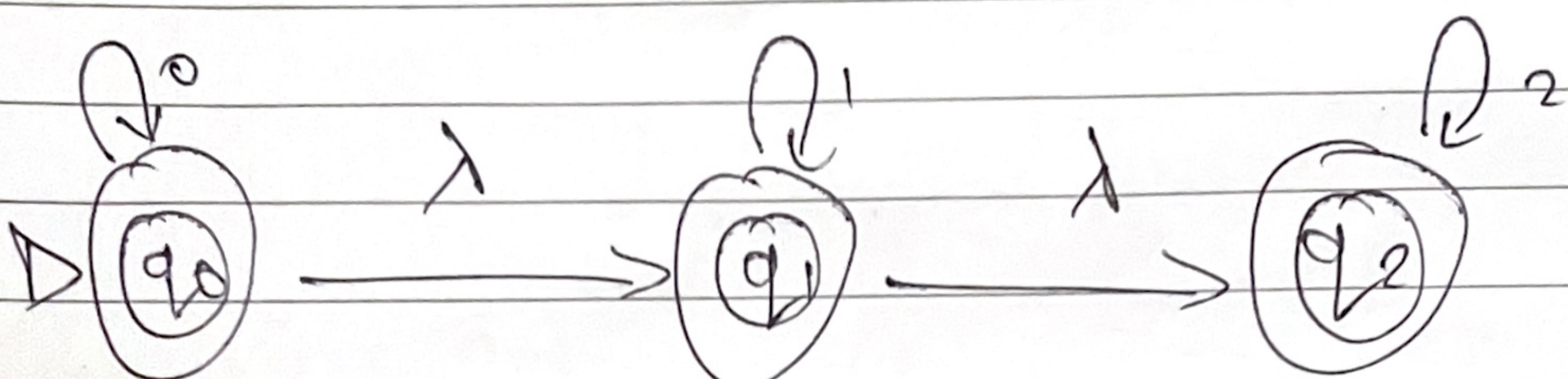


- DESIGN [NFA] FOR ACCEPTING INPUT  $\Sigma = \{a, b\}$  WITH SAME FIRST AND LAST CHARACTER



[ (NFA) WITH ( $\epsilon$ )NULL MOVES ] TO ACCEPT "0" OR MORE NUMBER OF "0"s FOLLOWED BY "0" OR MORE NUMBER OF "1"s FOLLOWED BY "0" OR MORE NUMBER OF "2"s

'0'  $\Rightarrow$  NOTHING / NULL



$\Sigma$ -closure  $q_0 - \{q_0, q_1, q_2\}$

$\Sigma$ -closure  $q_1 - \{q_1, q_2\}$

$\Sigma$ -closure  $q_2 - \{q_2\}$

E-closure

$$\mathcal{Q}_0 = \{q_0\} \quad \{q_0, q_1, q_2\}$$

$$\mathcal{Q}_1 = \{q_1\} \quad \{q_1, q_2\}$$

$$\mathcal{Q}_2 = \{q_2\} \quad \{q_2\}$$

(0)

(1)

(2)

$$q_0, q_1, q_2$$

$$= \mathcal{Q}_0$$

$$-$$

$$-$$

$$-$$

$$q_1, q_2$$

$$= \mathcal{Q}_1$$

$$q_1, q_2$$

$$= \mathcal{Q}_1$$

$$-$$

$$-$$

$$-$$

$$q_2$$

$$= \mathcal{Q}_2$$

$$q_2$$

$$q_2$$

$$= \mathcal{Q}_2$$

