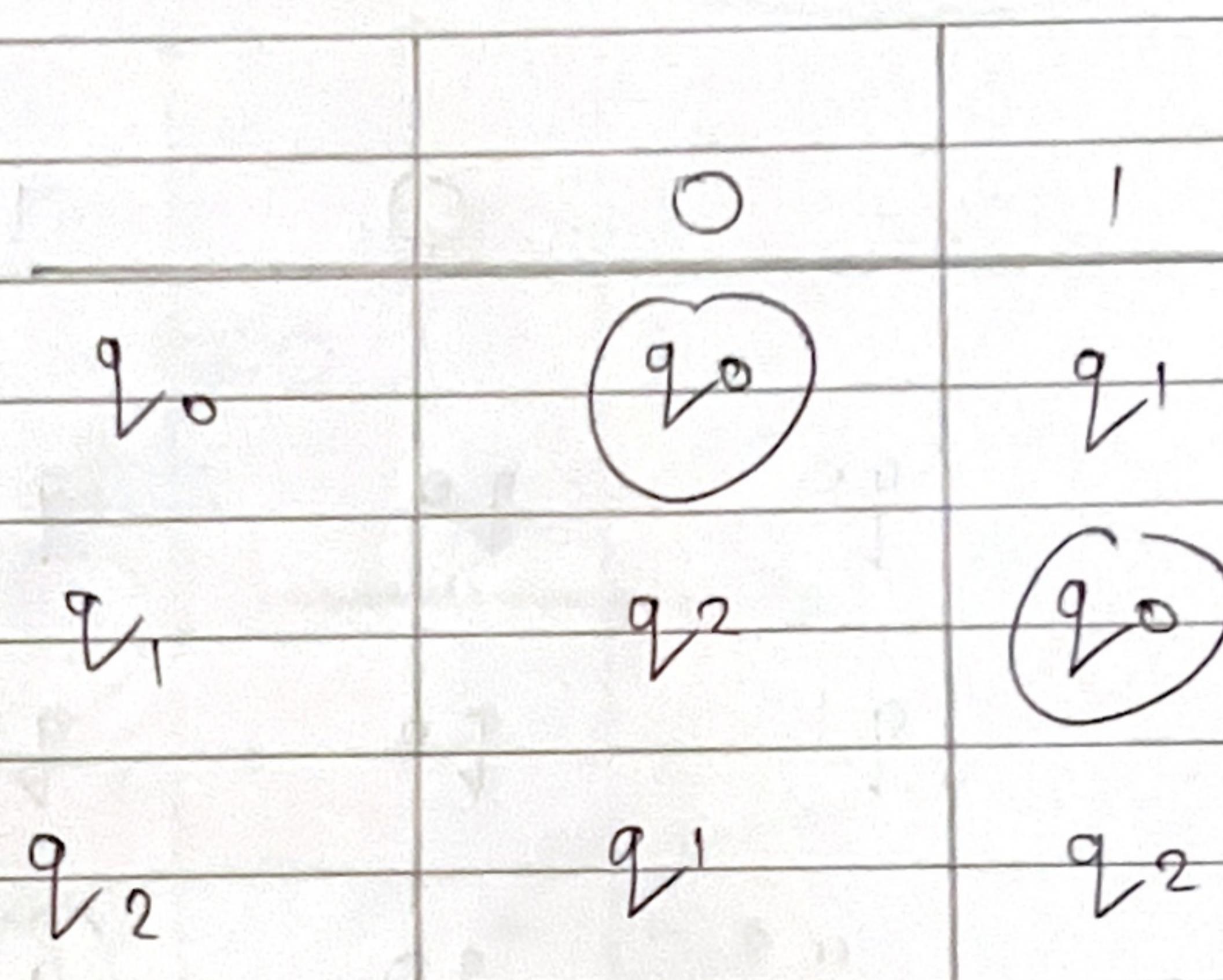
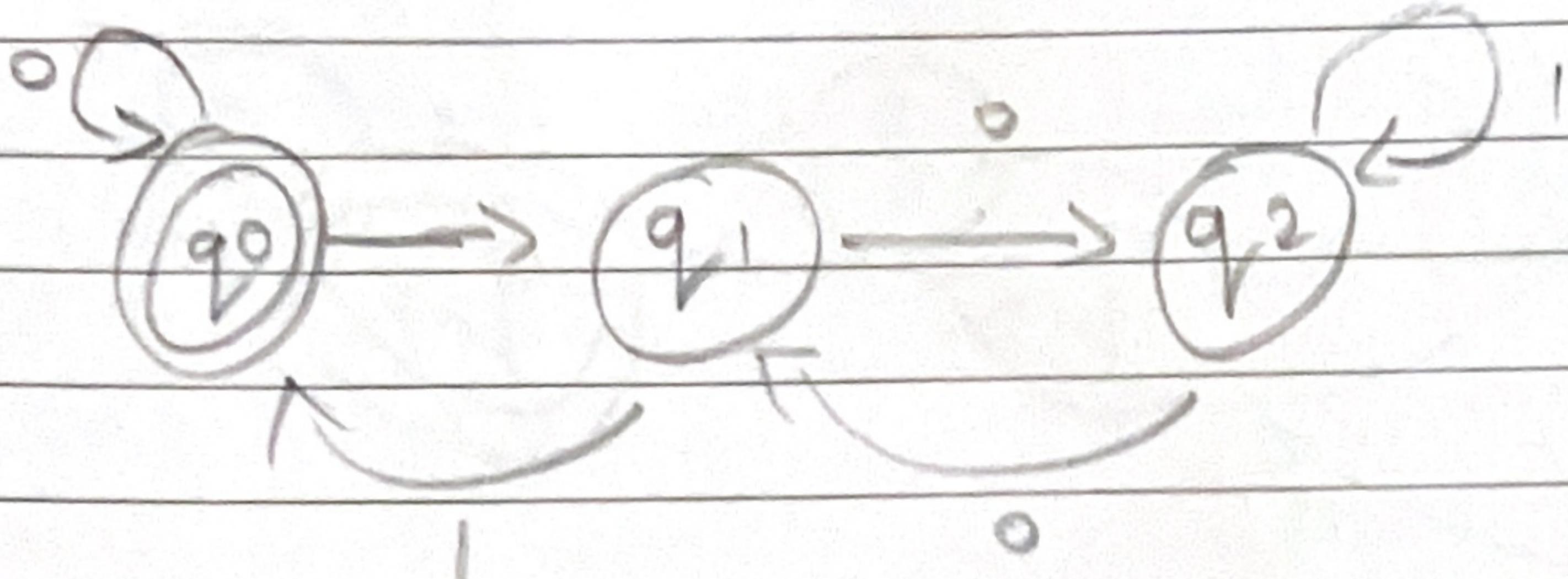


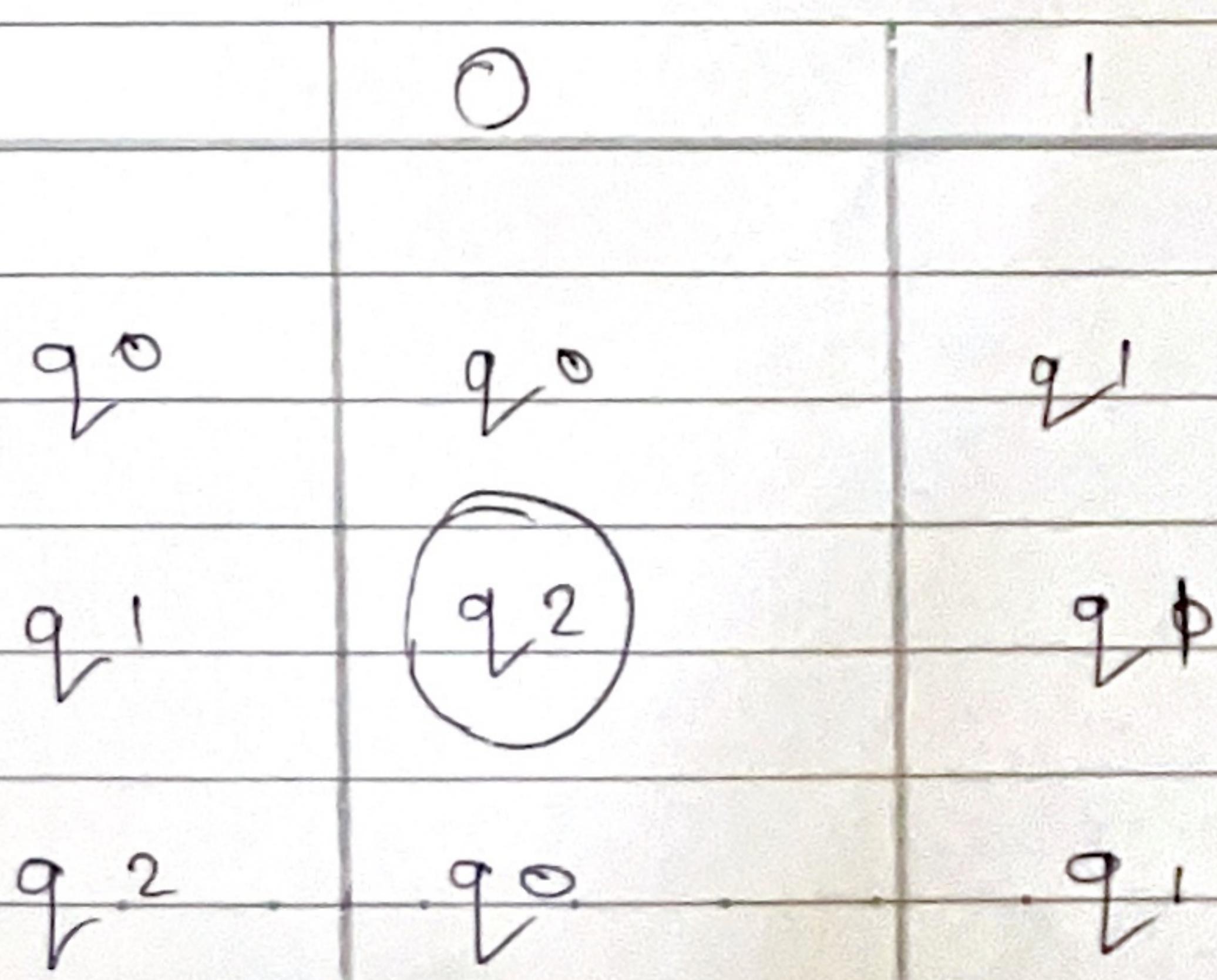
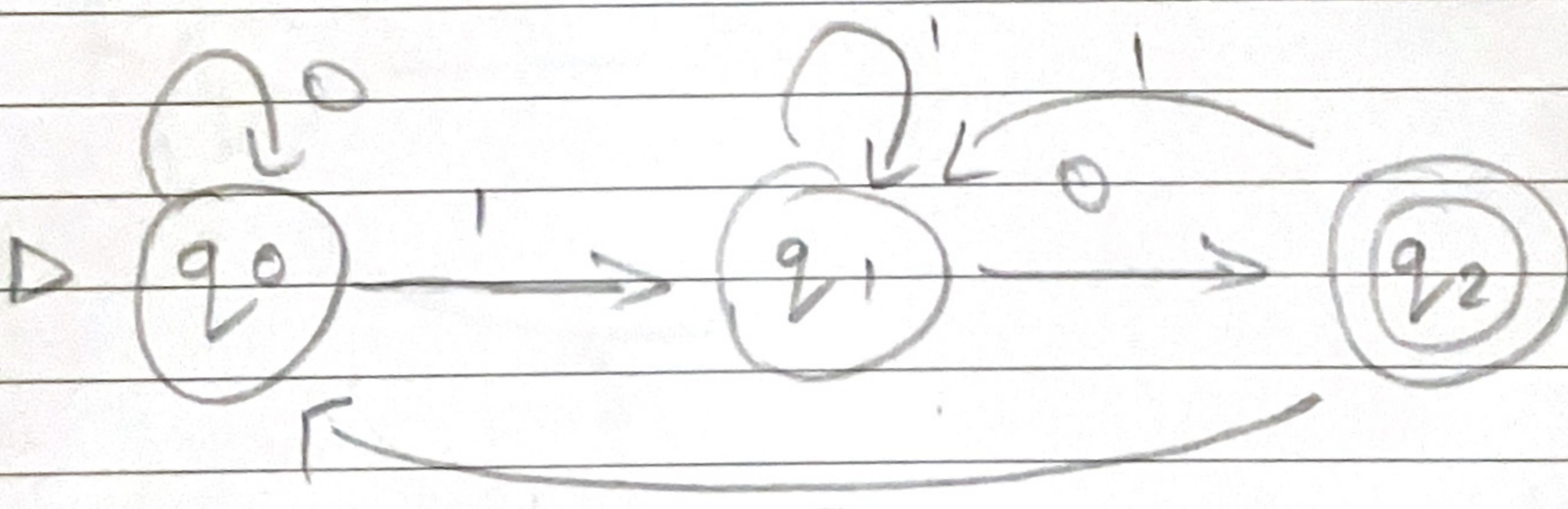
# [FINITE AUTOMATA]

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

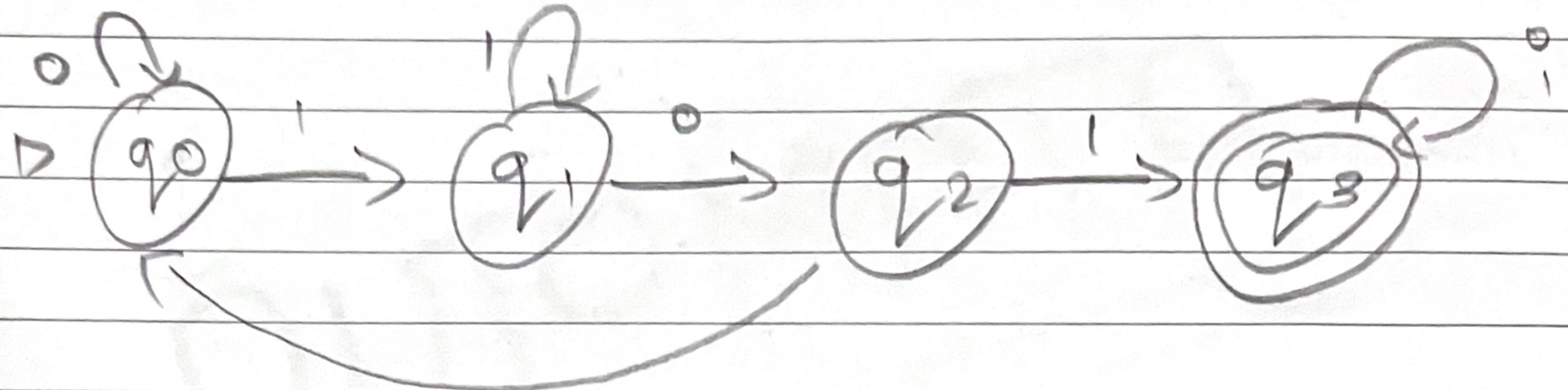
[DESIGN A (FA) ACCEPTING A BINARY NUMBER DIVISIBLE BY 3.]



[DESIGN A (FA) ACCEPTING STRINGS ENDING WITH "10"]

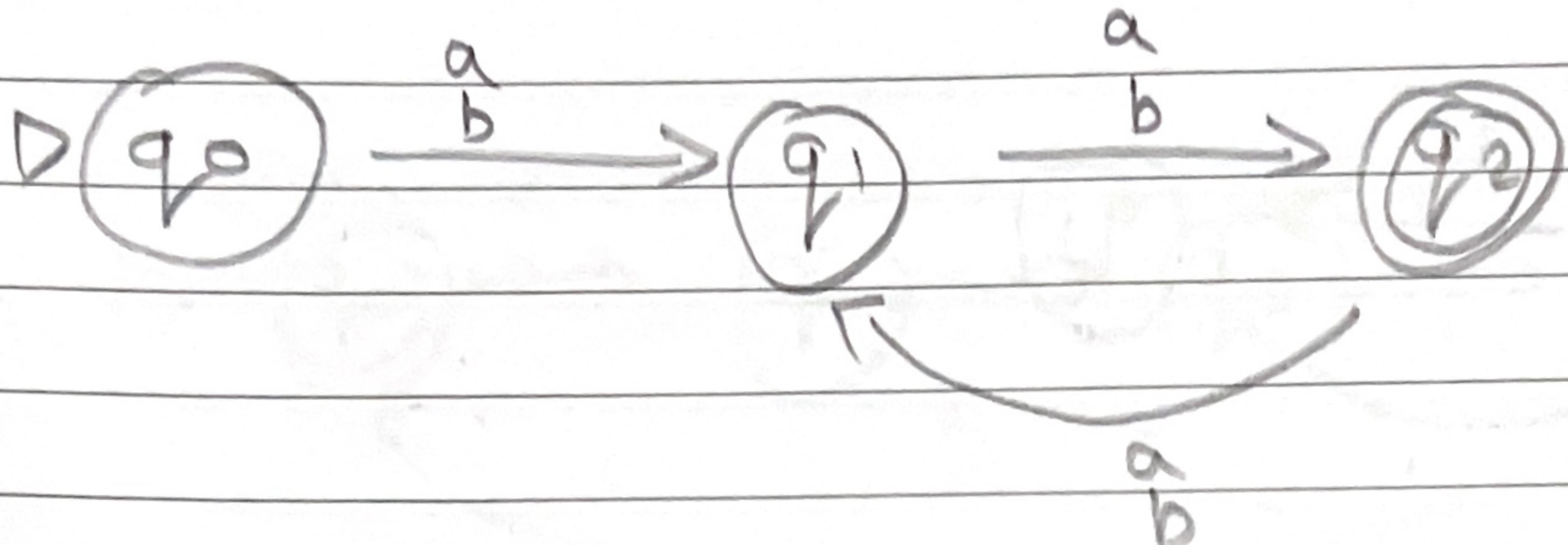


DESIGN (FA) ACCEPTING STRING ENDING  
WITH "101"

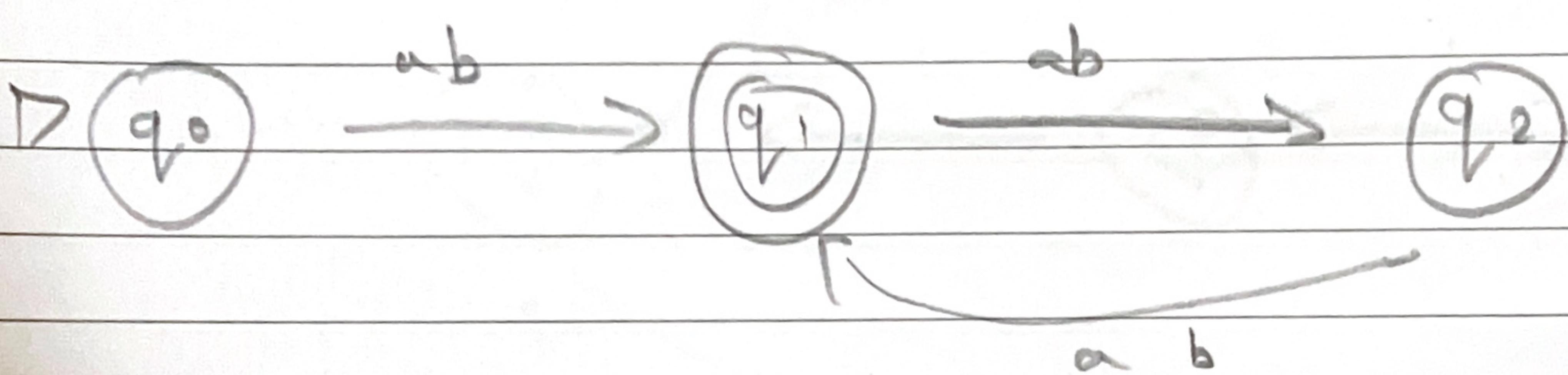


0	1
$v^0$	$v^0$
$v^1$	$v^1$
$v^2$	$v^2$
$v^3$	$v^3$

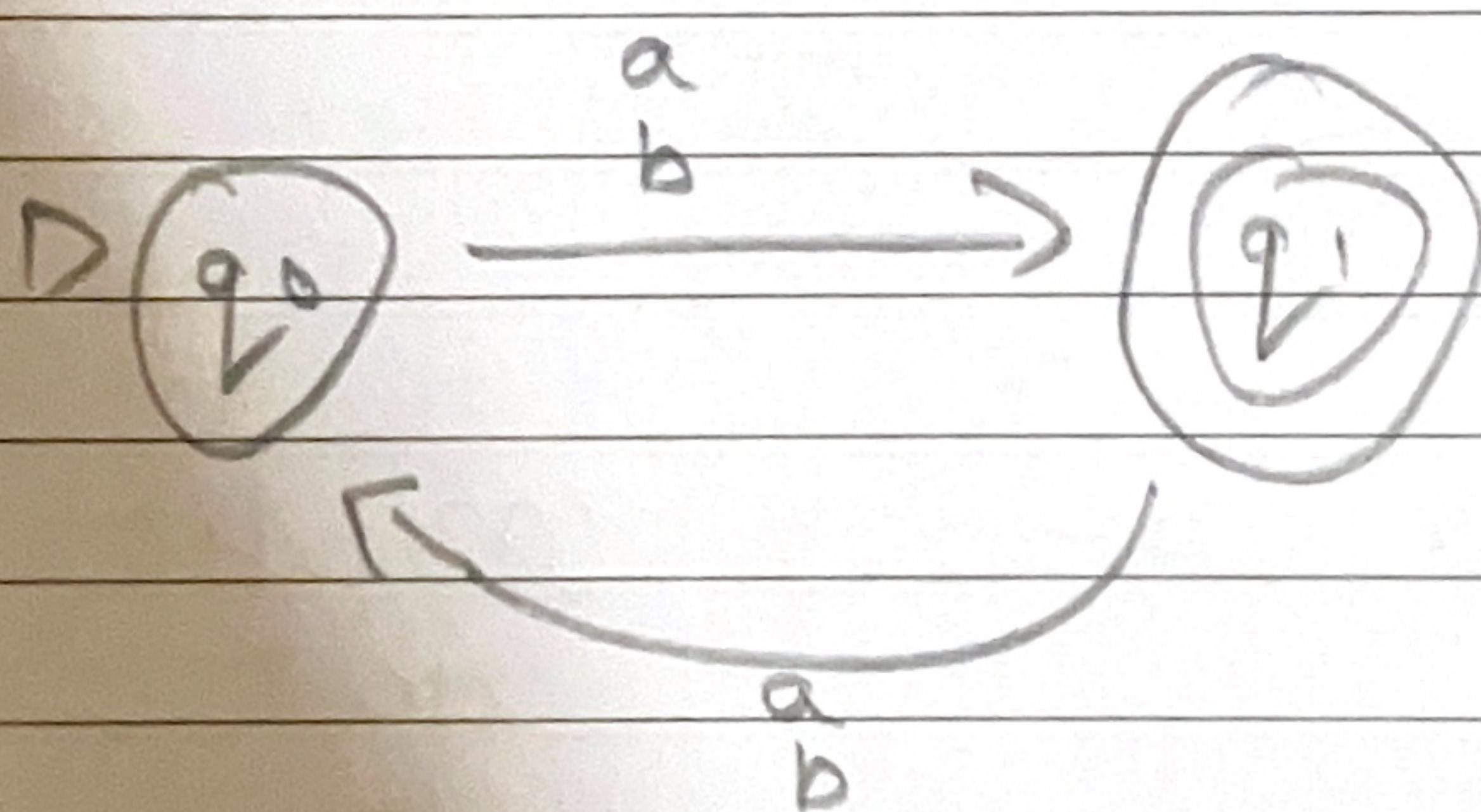
[DESIGN (FA) ACCEPTING WORDS OF EVEN LENGTH]



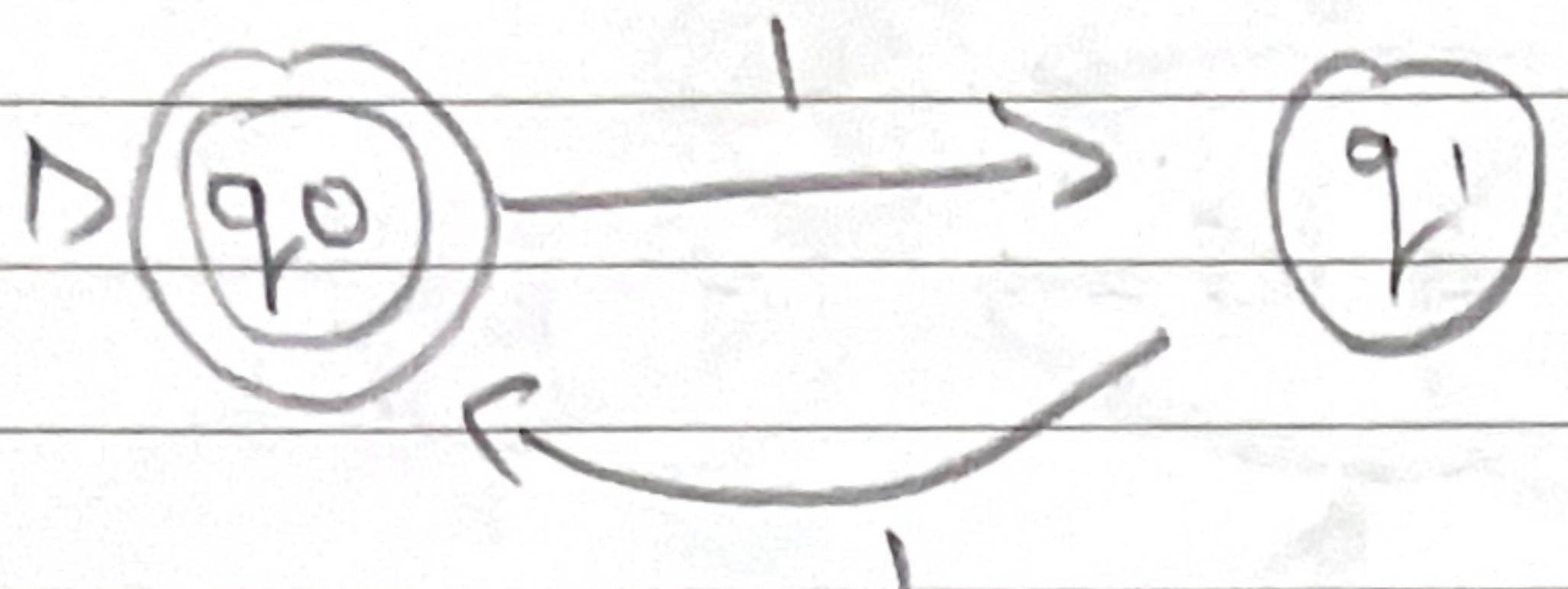
[DESIGN (FA) ACCEPTING STRINGS OVER INPUT "a,b". LENGTH IS ODD]



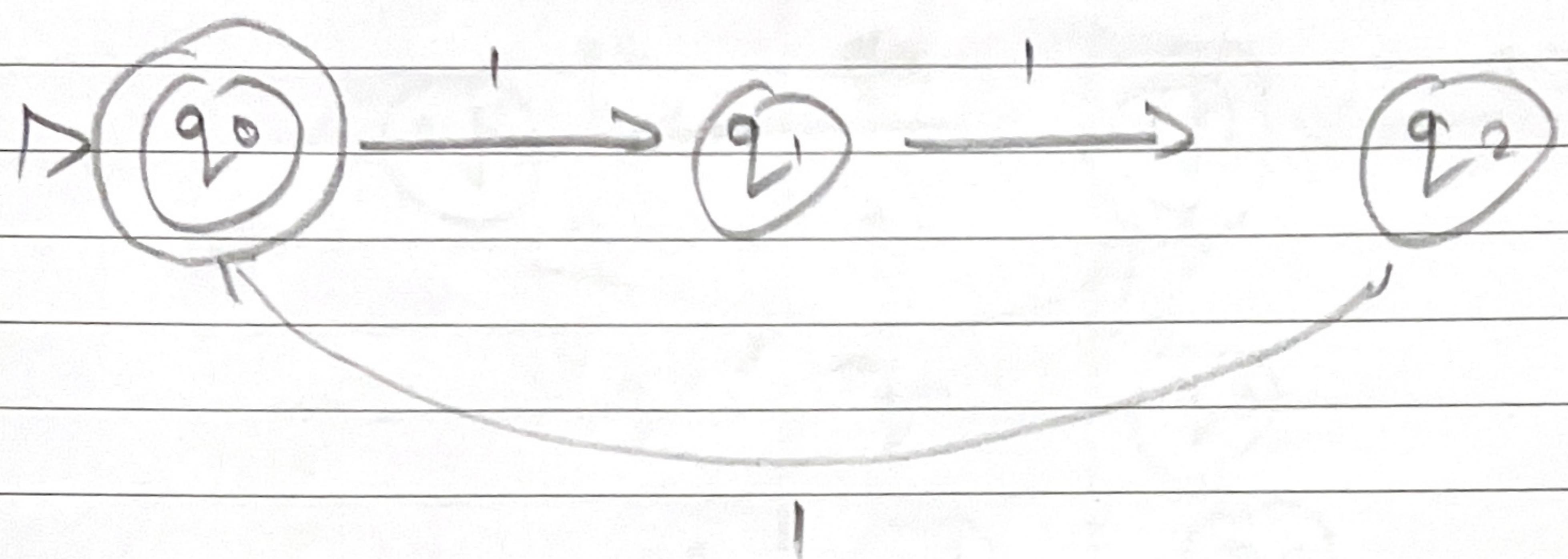
[OR]



DESIGN (FA) FOR UNARY NUMBER  
DIVISIBLE BY TWO

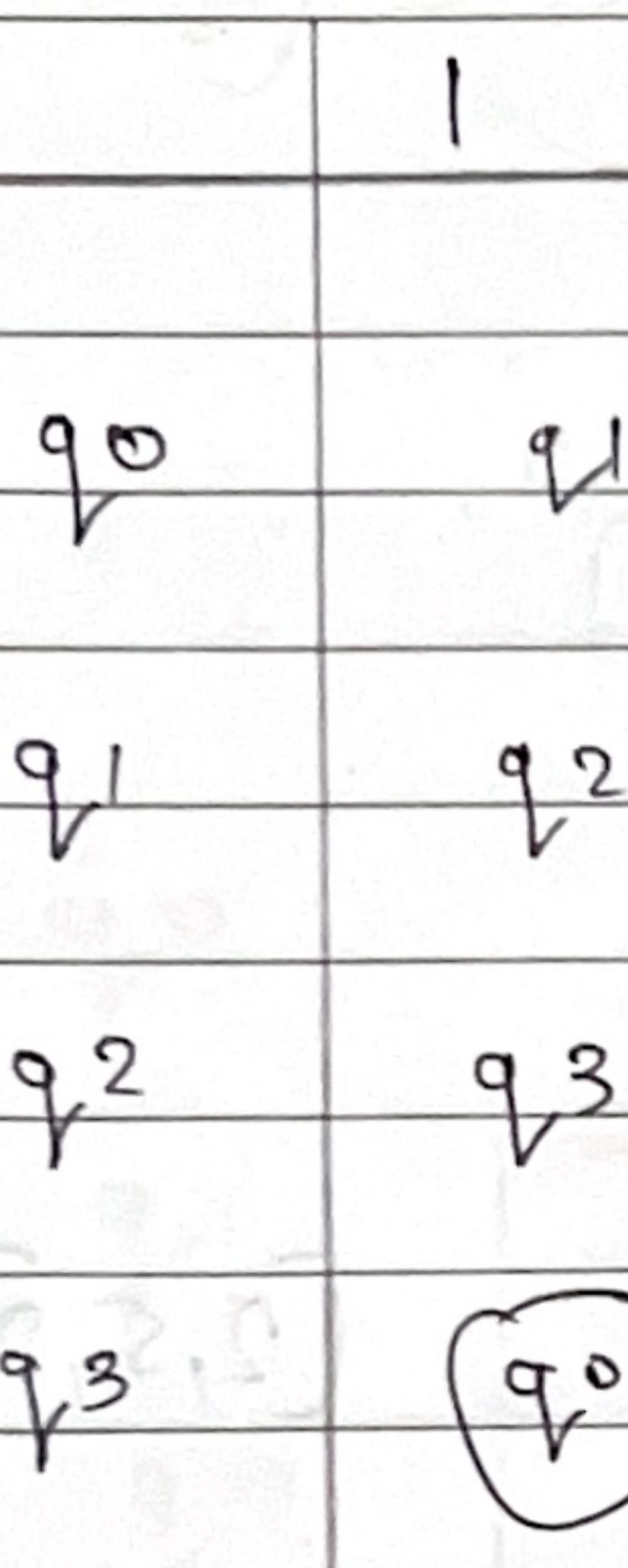
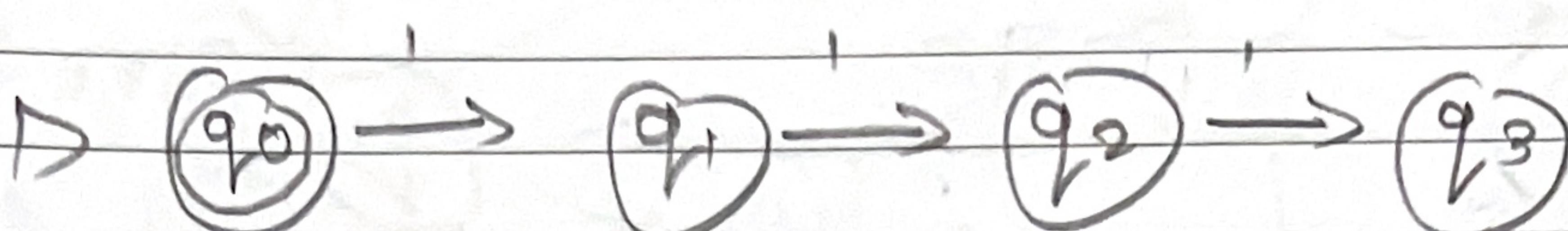


DESIGN (FA) FOR ~~BINARY~~ NUMBER UNARY  
DIVISIBLE BY THREE

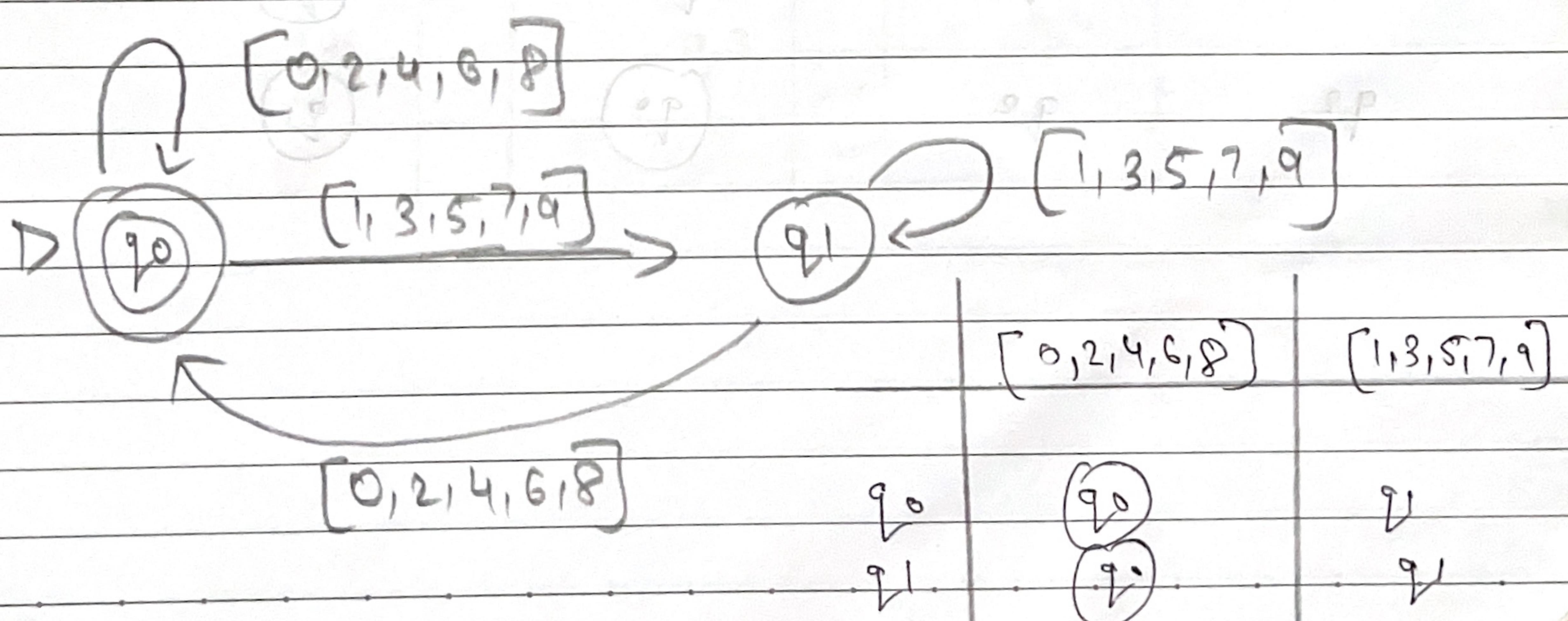


$q_0$	$q_1$
$q_1$	$q_2$
$q_2$	$q_0$

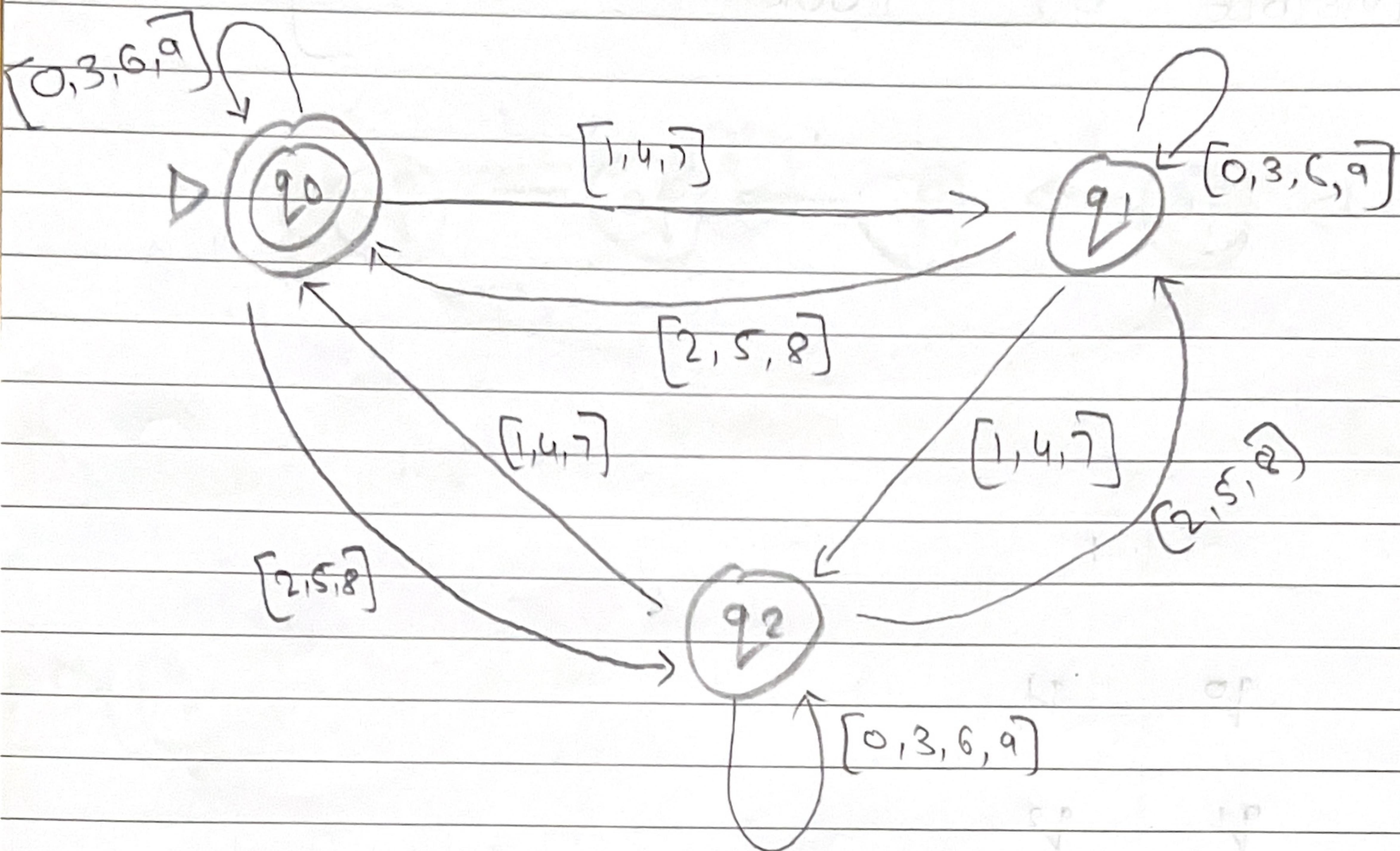
[DESIGN (FA) FOR UNARY NUMBER DIVISIBLE BY FOUR]



[DESIGN (FA) DECIMAL NUMBER DIVISIBLE BY TWO]

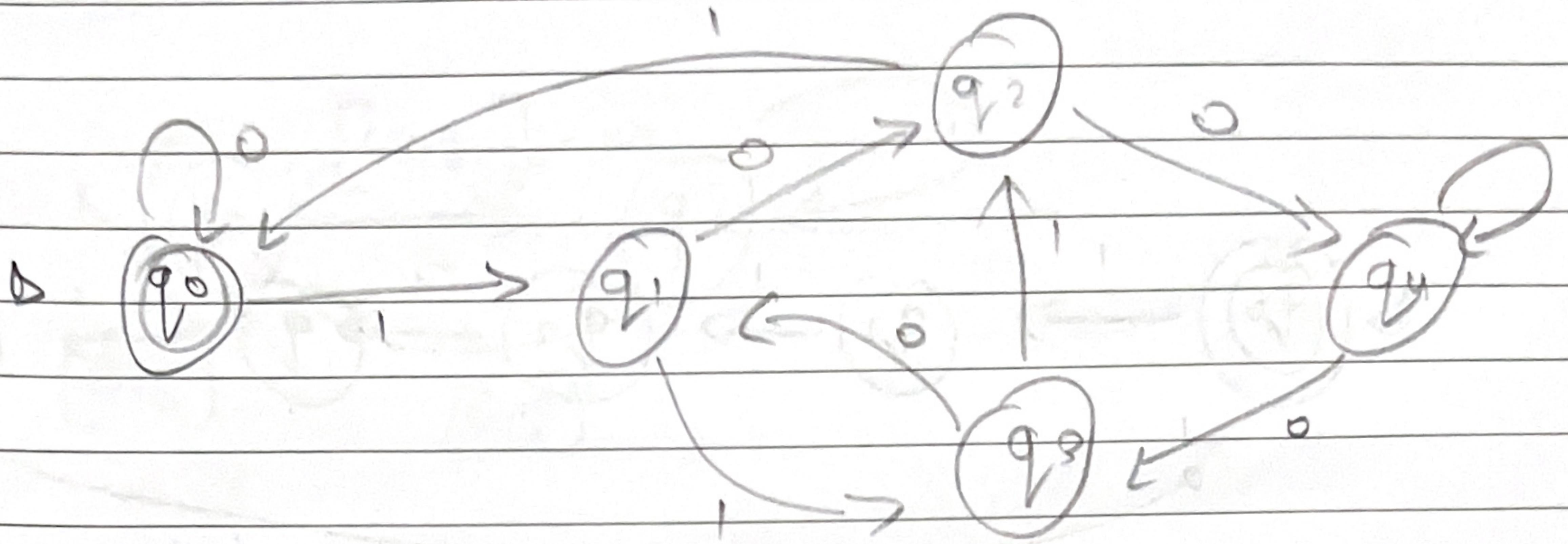


[DESIGN (FA) DECIMAL DIVISIBLE BY THREE]



$[0,3,6,9]$	$[1,4,7]$	$[2,5,8]$
$q_0$	$q_0$	$q_1$
$q_1$	$q_1$	$q_2$
$q_2$	$q_2$	$q_1$

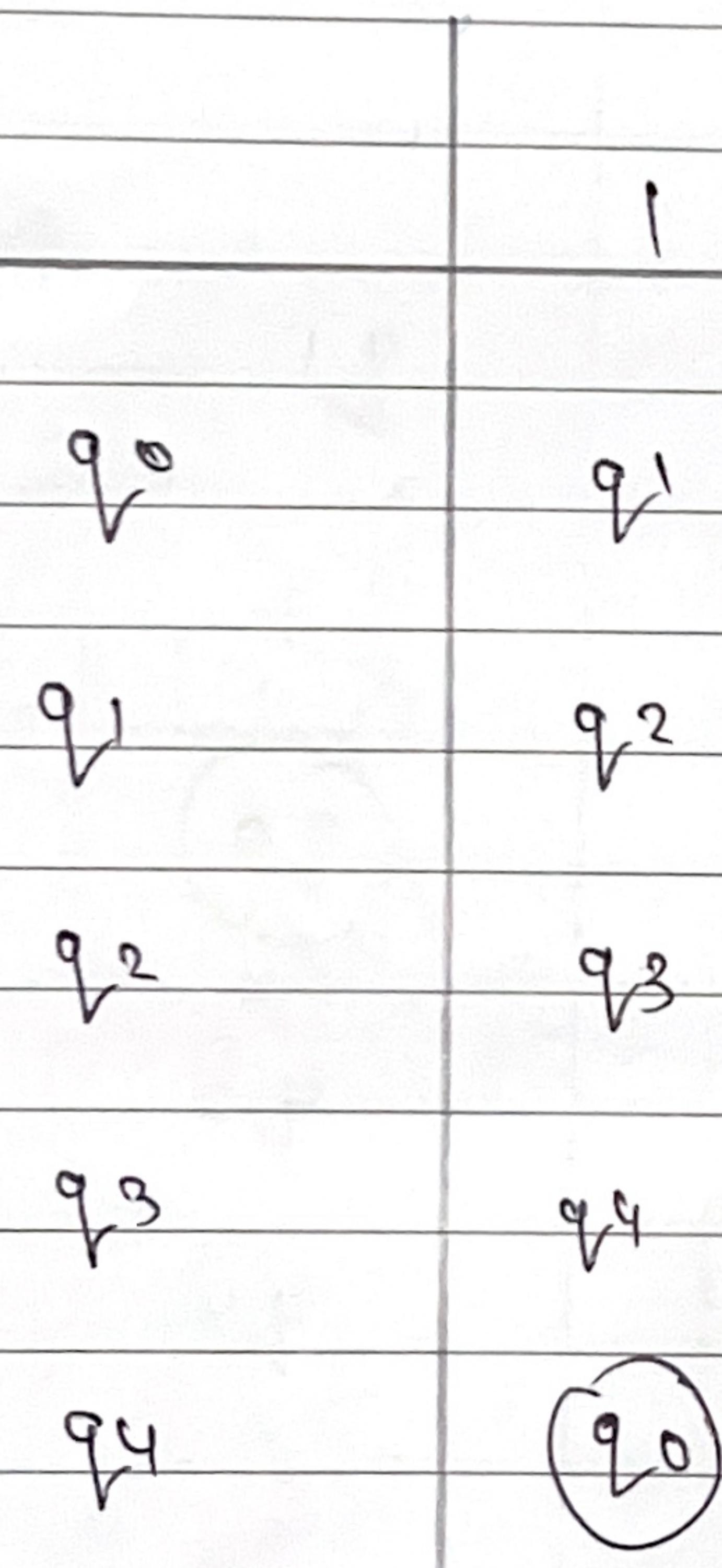
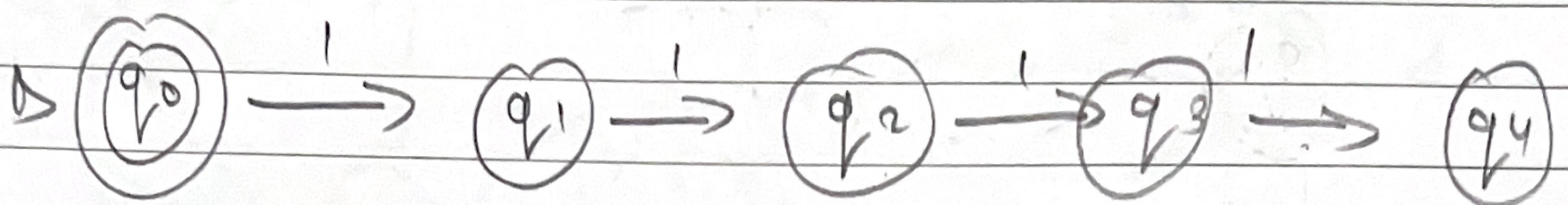
[DESIGN (FA) BINARY % S]



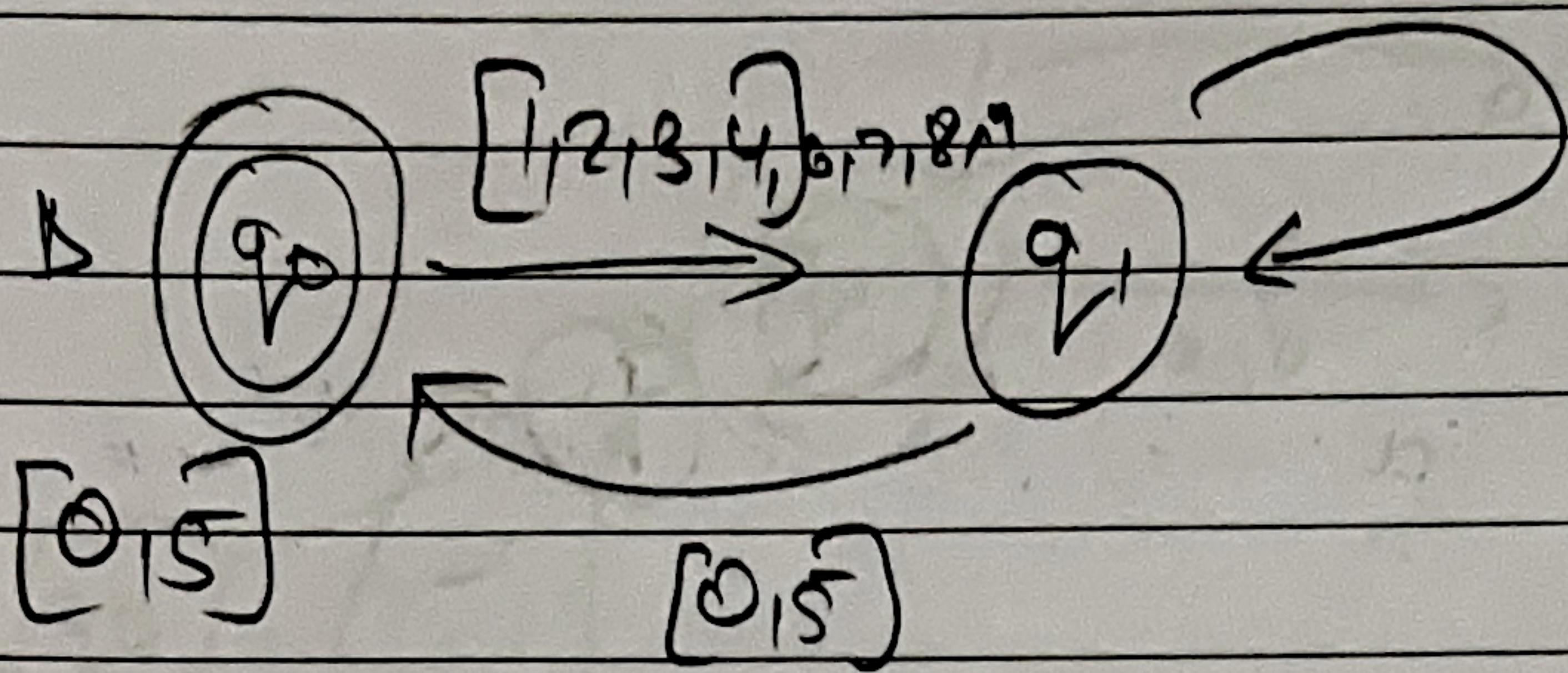
	0	1
0	q0	q1
1	q2	q3
0	q4	q0
1	q1	q2
0	q3	q4
1	q2	q3
0	q4	q1
1	q3	q2

(CP)

[ DESIGN (FA) UNARY % S ]



[DESIGN (FA) DECIMAL • 10 S ]



$[1, 2, 3, 4]$   
 $[6, 7, 8, 9]$

$[0, 5]$

$q_0$

$q_1$

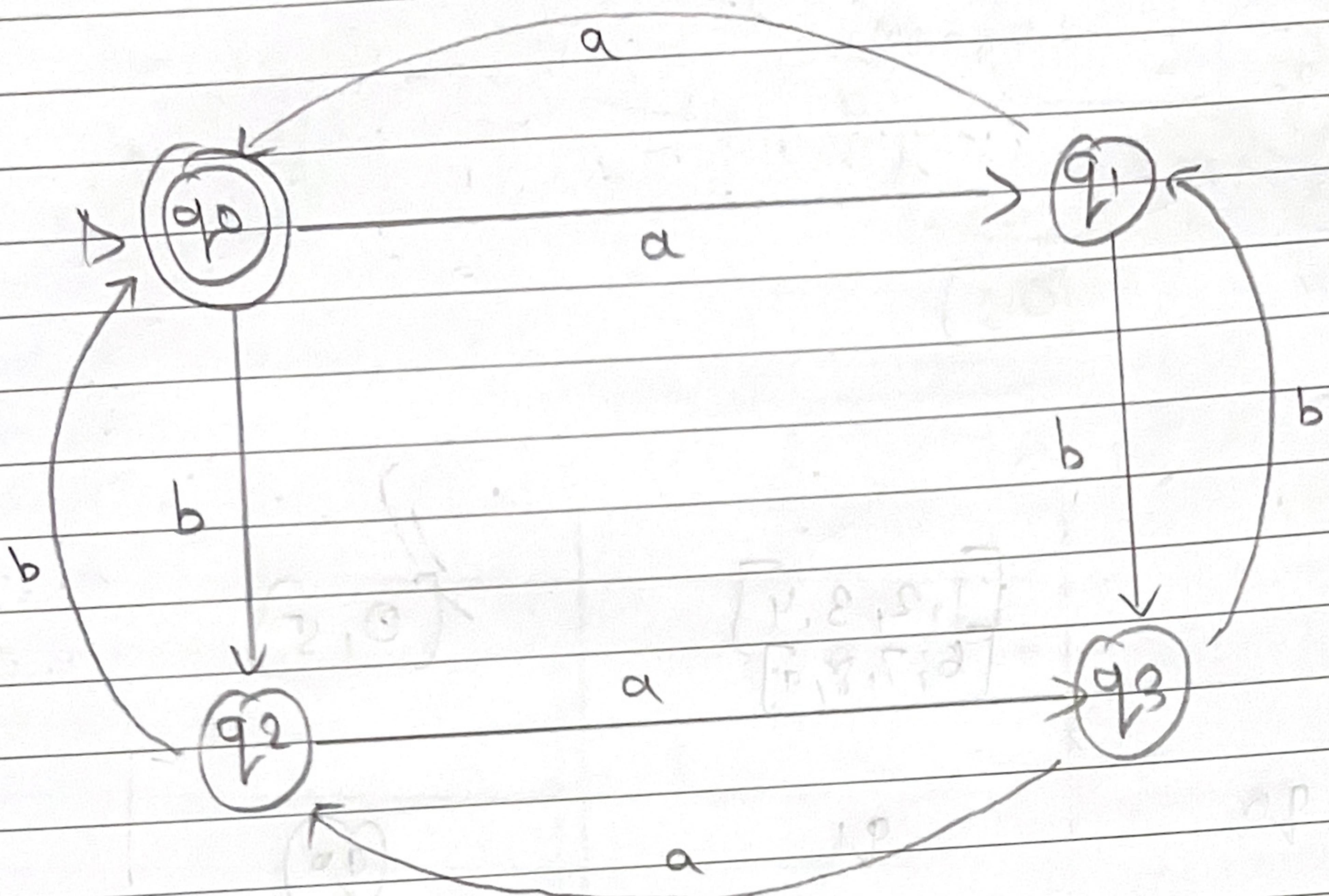
$q_0$

$q_1$

$q_1$

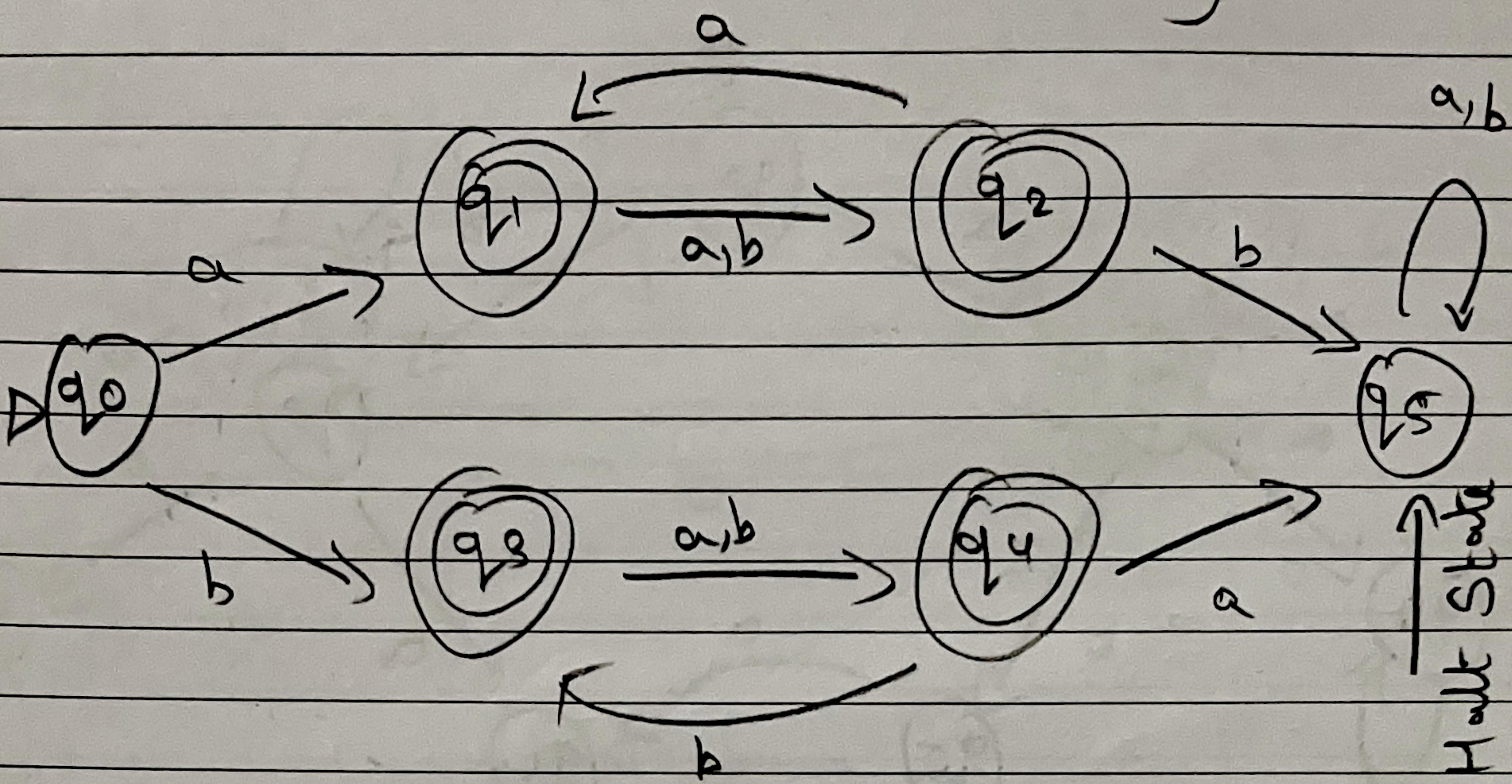
$q_0$

DESIGN (FA) ACCEPTING EVEN NUMBER  
OF "a" AND "b"



a	b
$q^0$	$q^1$
$q^1$	$q^0$
$q^2$	$q^3$
$q^3$	$q^2$

DESIGN : (FA) ACCEPTING SAME SYMBOL  
IN ALL ODD POSITION



[DESIGN FA ACCEPTING STRINGS ENDING WITH DOUBLE SAME SYMBOL]

