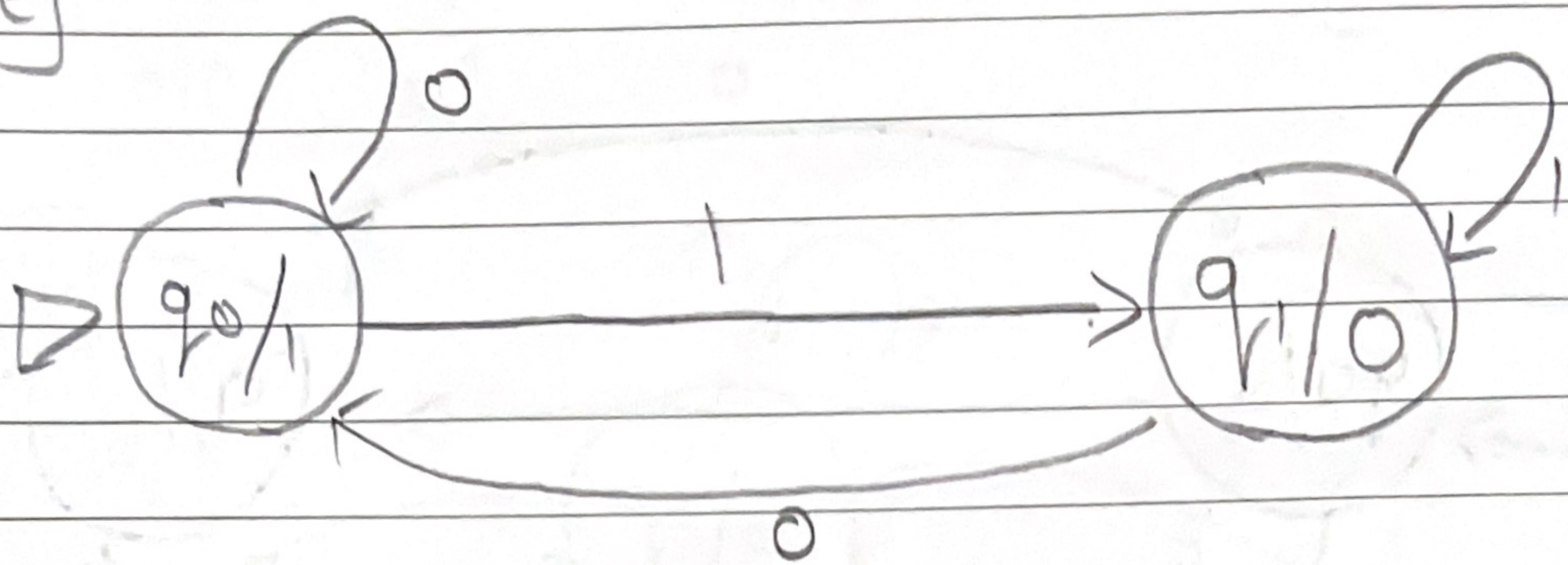


[FA] WITH OUTPUT

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

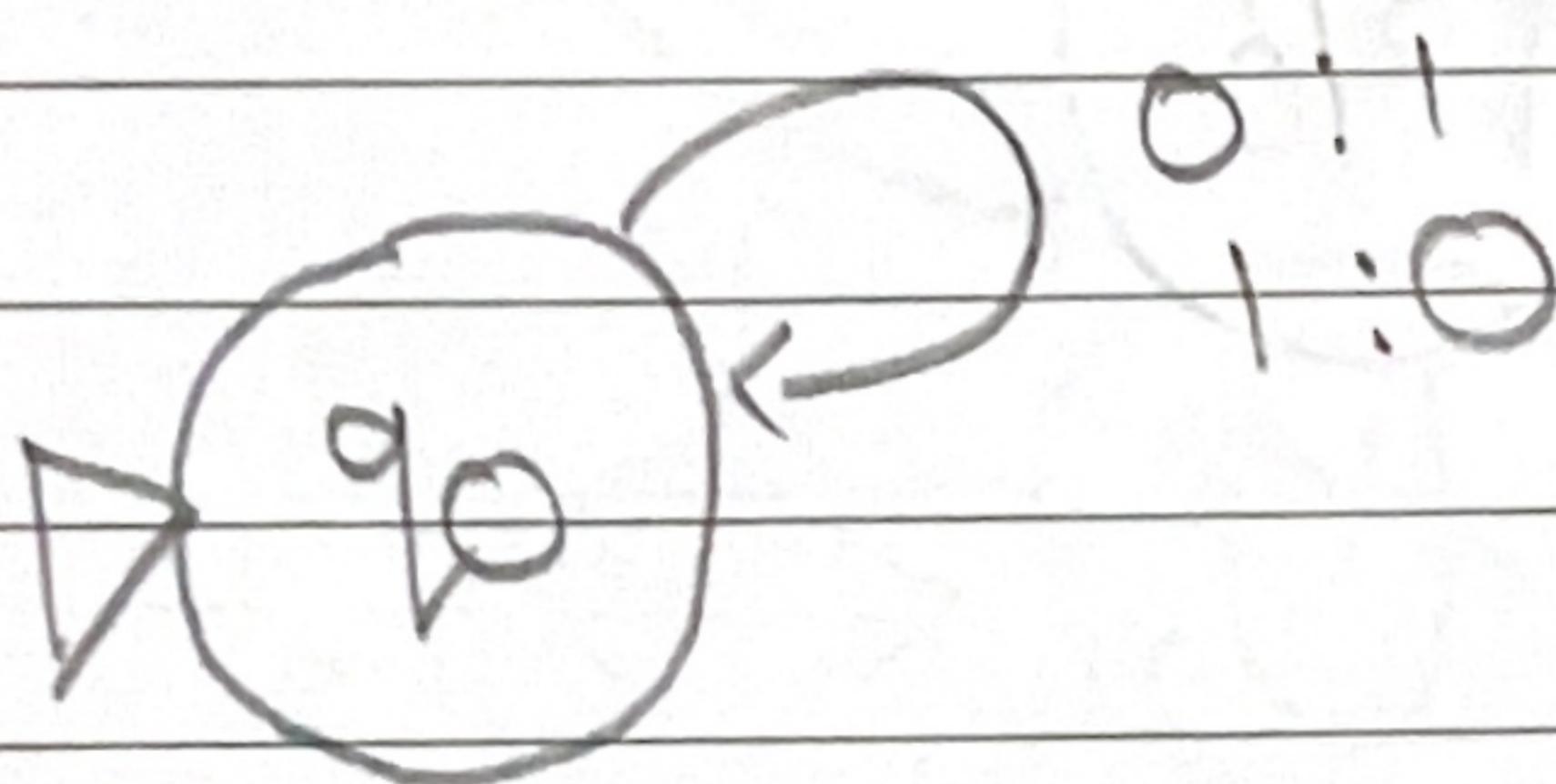
DESIGN MOORE/MEALY THAT GIVES
1'S COMPLEMENT OF A BINARY

[MOORE]



1 0 1 1 0

[MEALY]

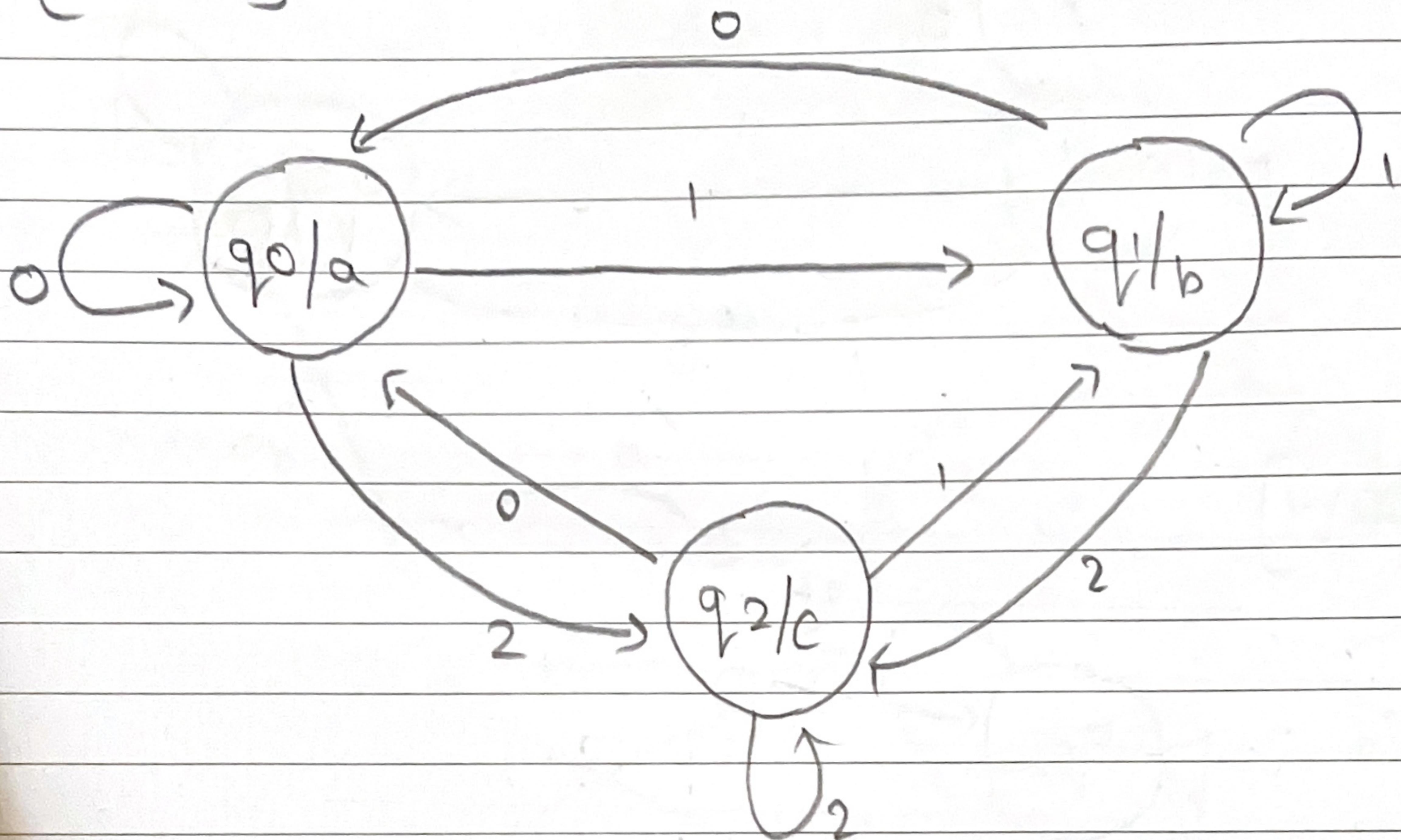


1 0 1 1 0

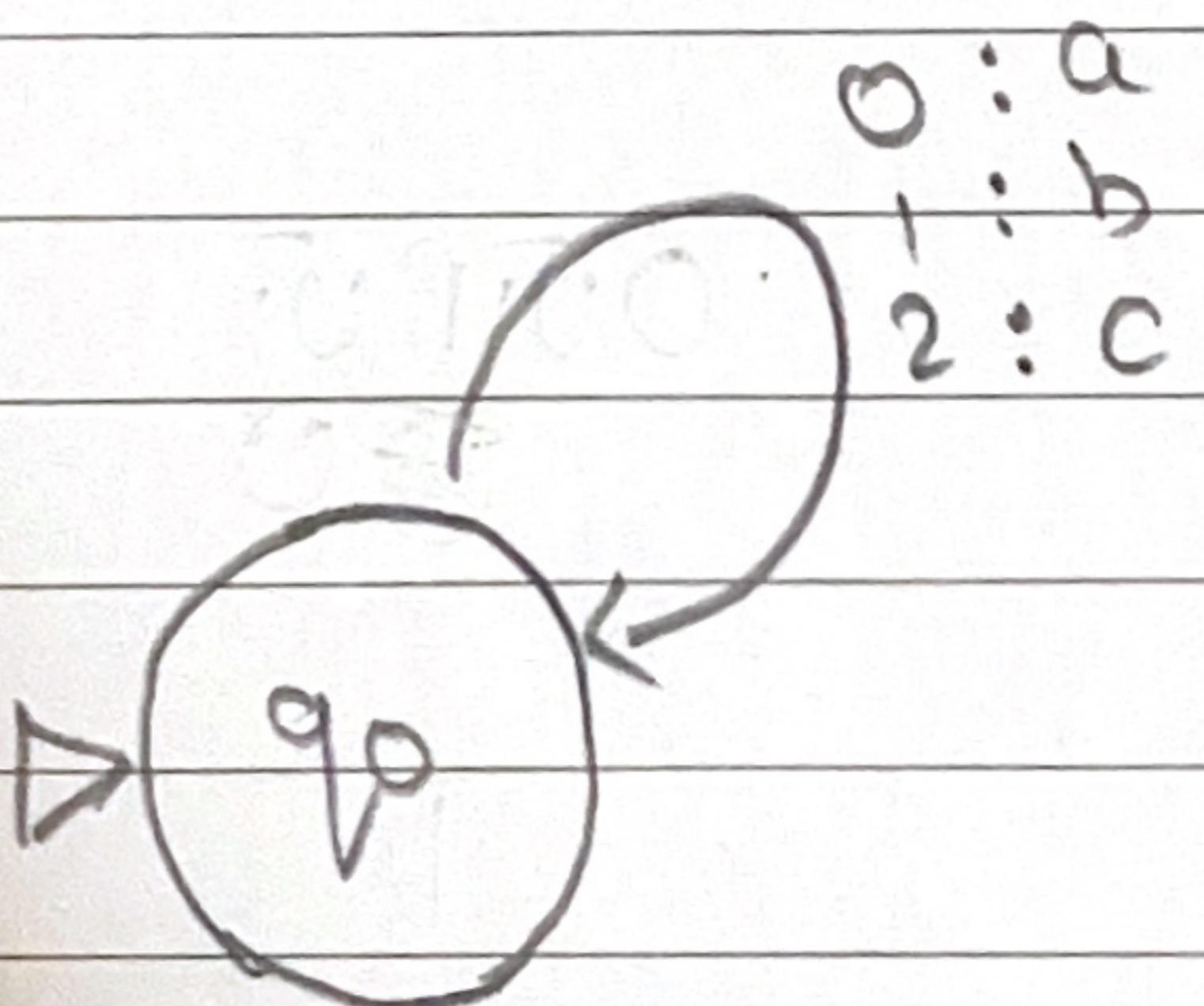
| 0 | 1 | OUTPUT | 1 | 1 |
|----|----|--------|---|---|
| q0 | q0 | q1 | 1 | 1 |
| q1 | q0 | q1 | 0 | 0 |

DESIGN MOARE / MEALY MACHINE TO
CONVERT $[0,1,2]$ TO $[a,b,c]$

[MOARE]

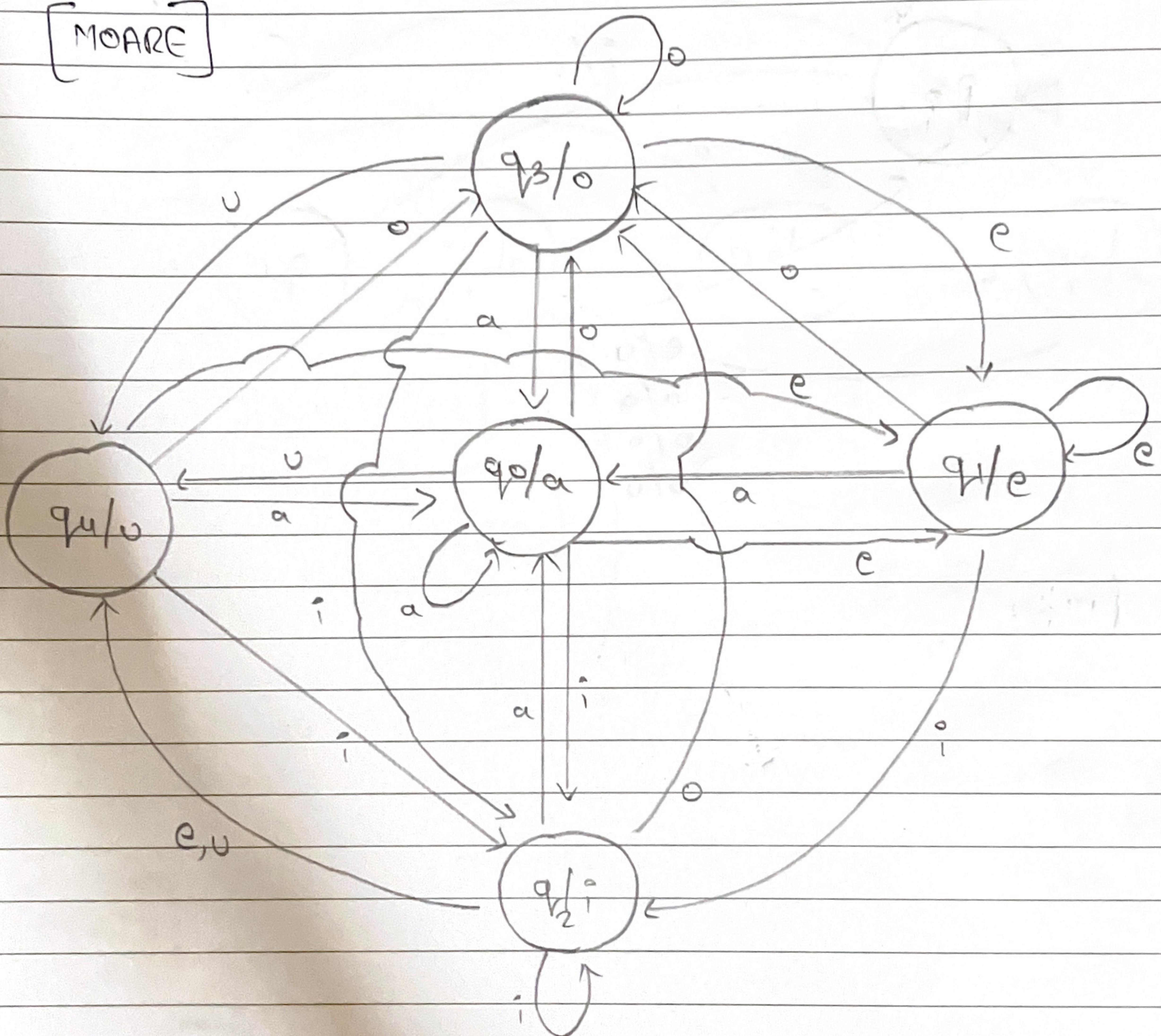


[MEALY]

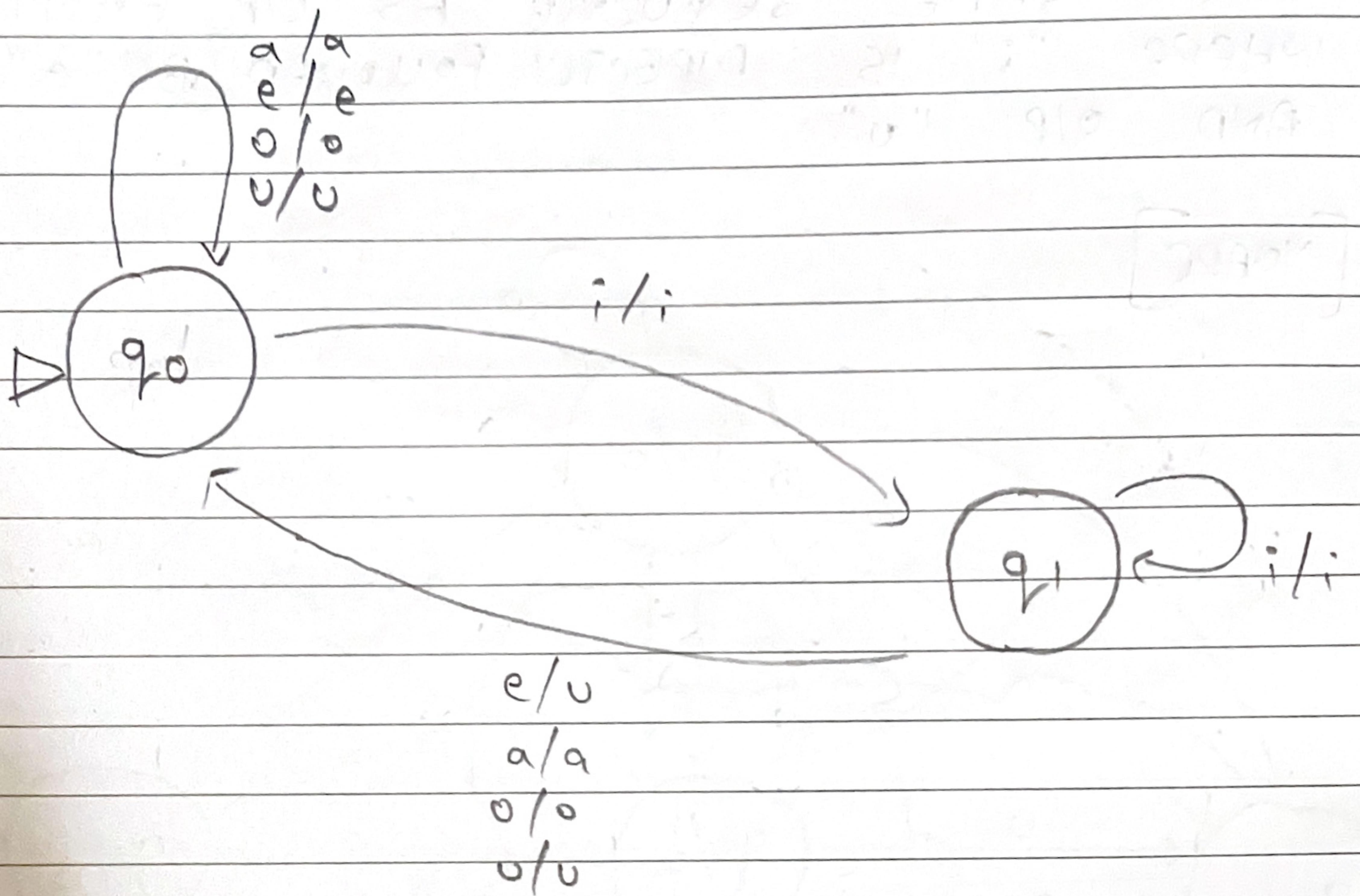


— DESIGN MOARE MACHINE MADE OF LETTERS OF [a,e,i,o,u], IT WILL GIVE SAME SEQUENCE AS O/P EXCEPT WHERE "i" IS DIRECTLY FOLLOWED BY "e" AND O/P "u"

[MOARE]

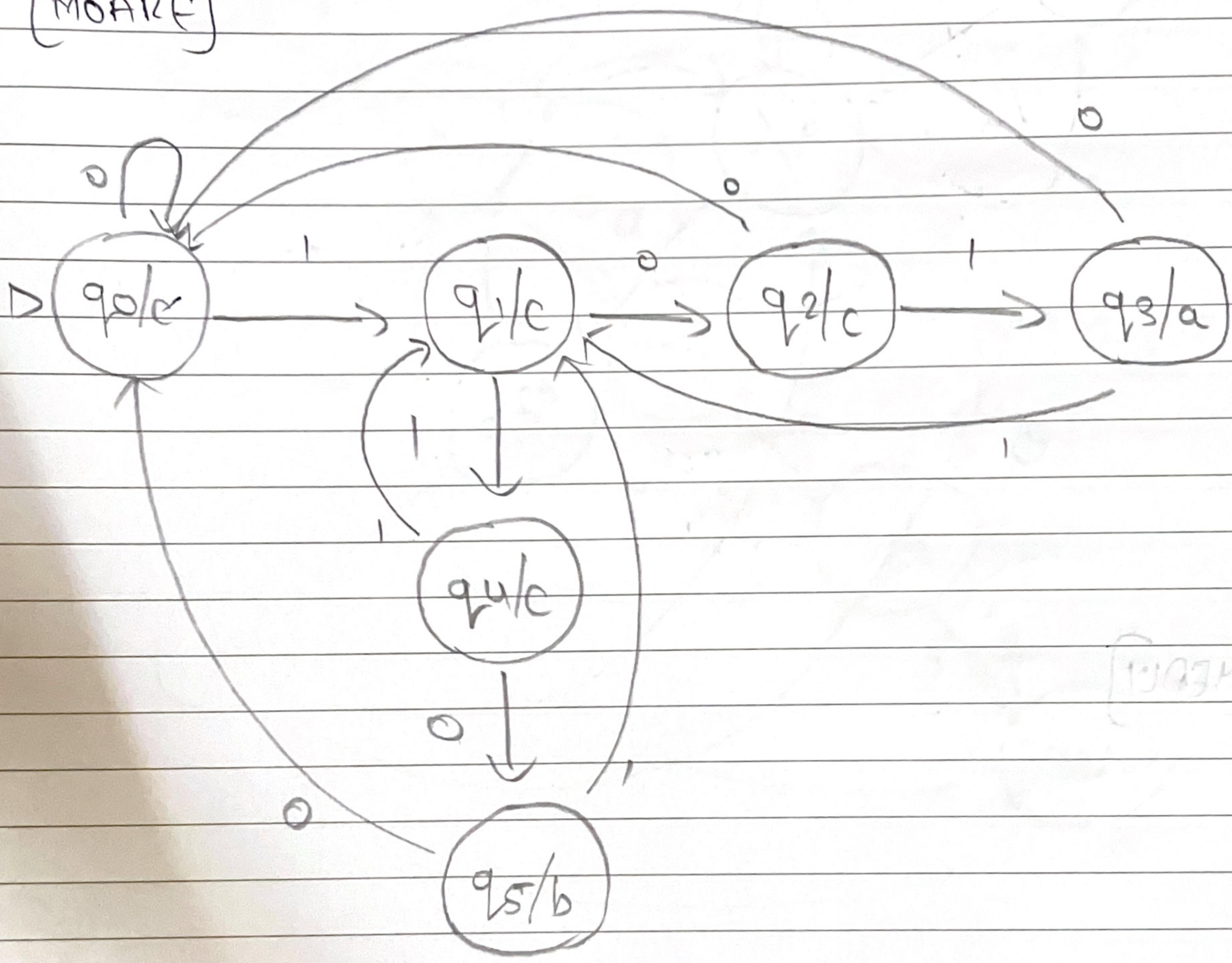


[MEALY]

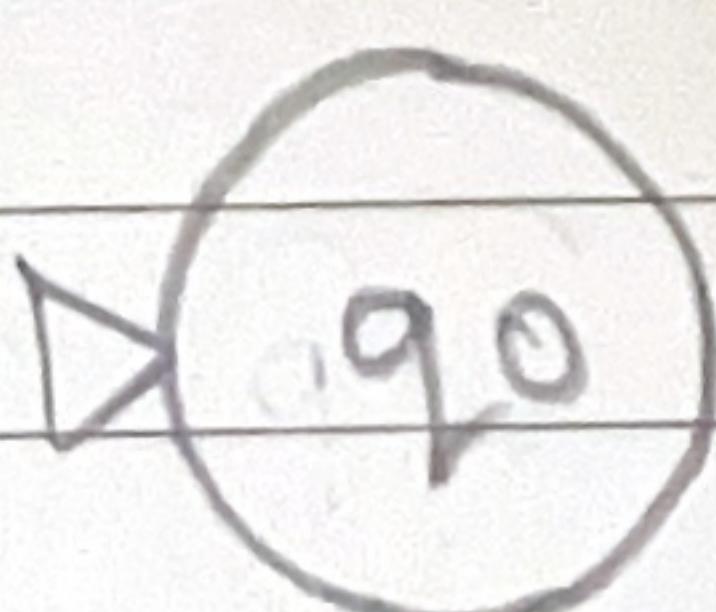


- DESIGN MOARE MACHIENCE FOR BINARY INPUT, SUCH IF IT HAS A SUBSTRING "110", O/P AS "b", "101" O/P AS "a", ELSE O/P AS "c"

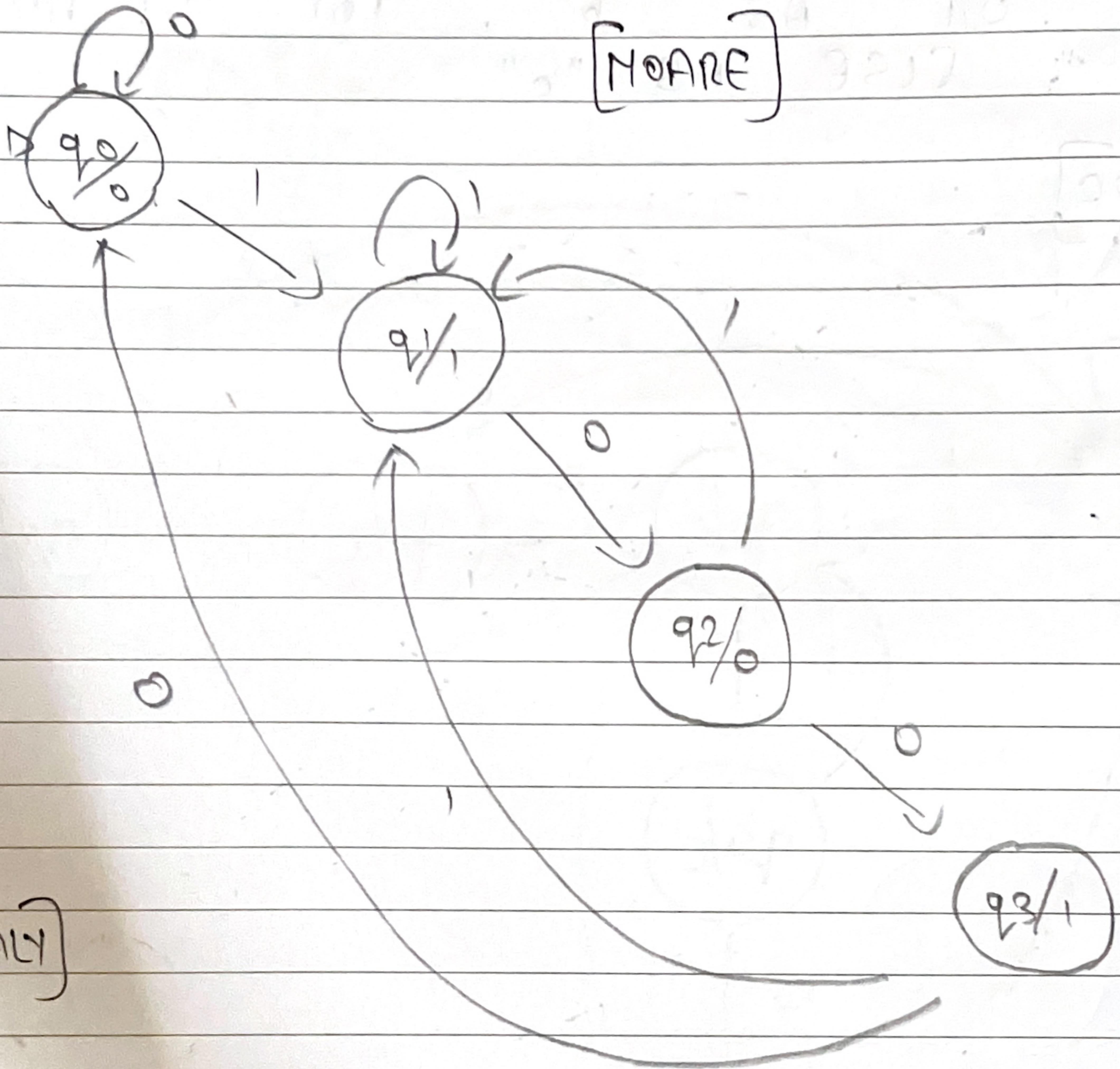
[MOARE]



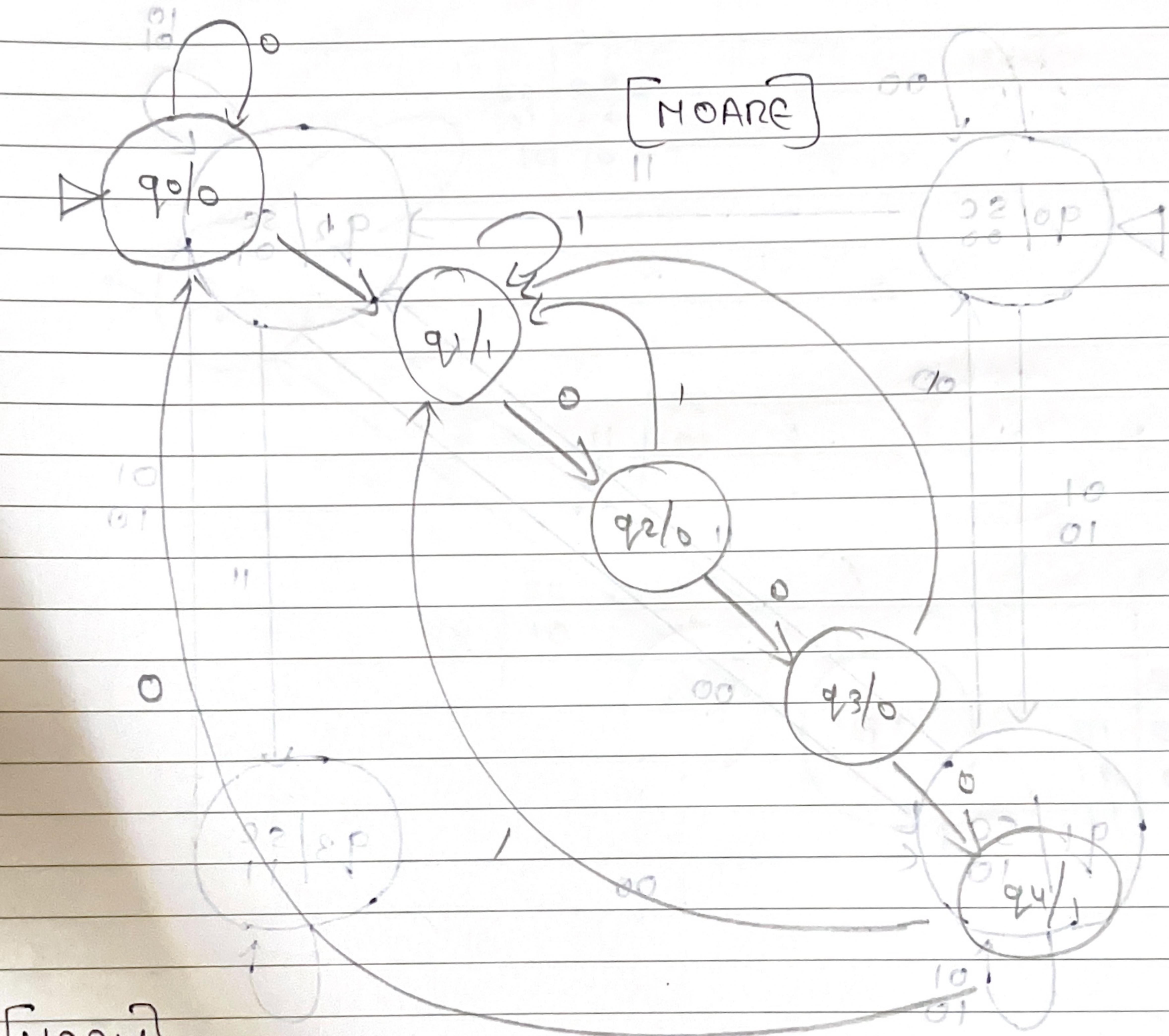
[MEALY]



- DESIGN A MEALY MACHINE TO CONVERT "100" TO "101"



DESIGN A MOARE TO CONVERT "1000" A TO "1001" -



[MEALY]

0 2 1 01 10 00

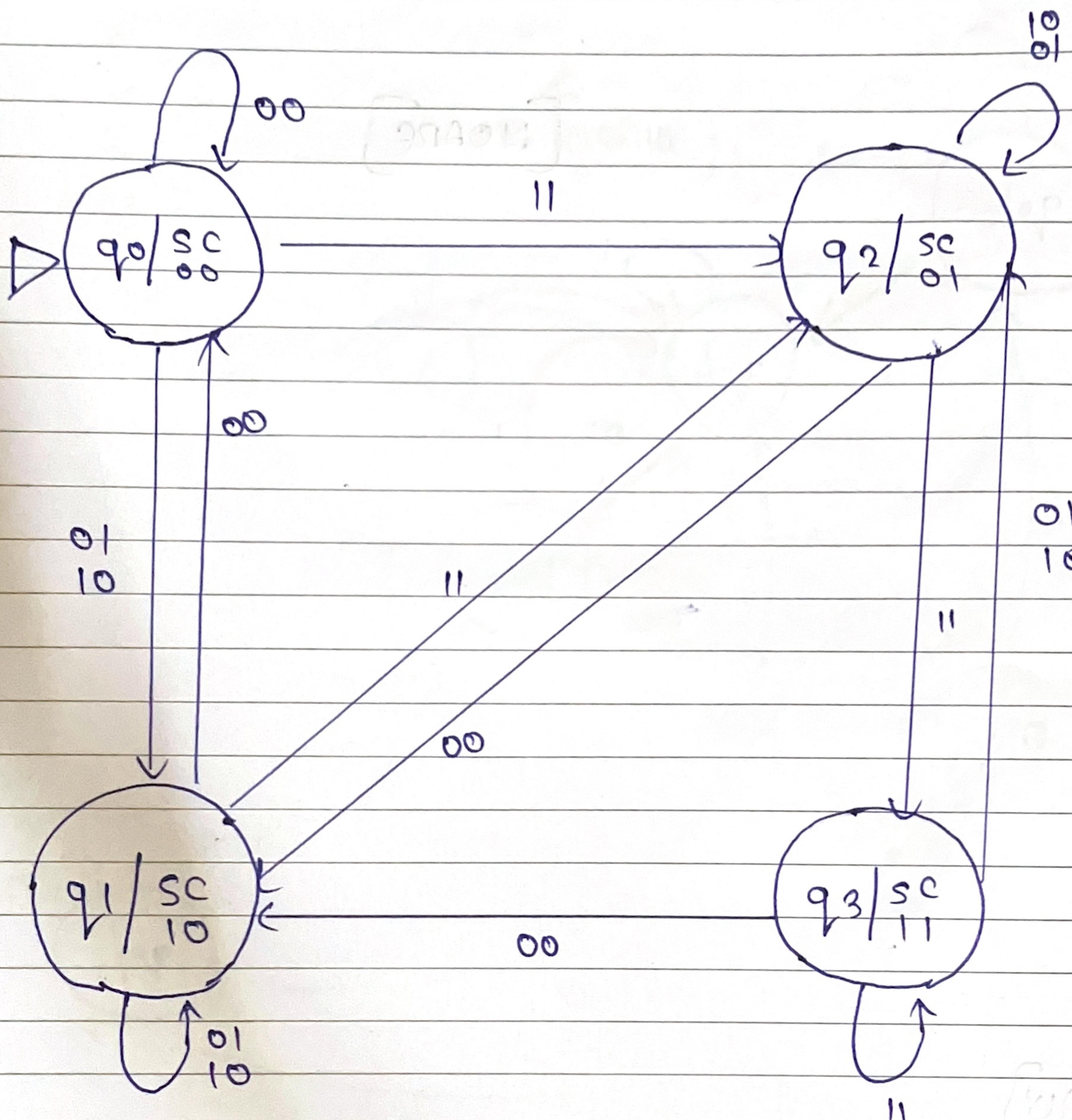
0 0 sp 1p ip ap ap

0 1 sp 1p ip ap ip

1 0 sp sp ip ip ip

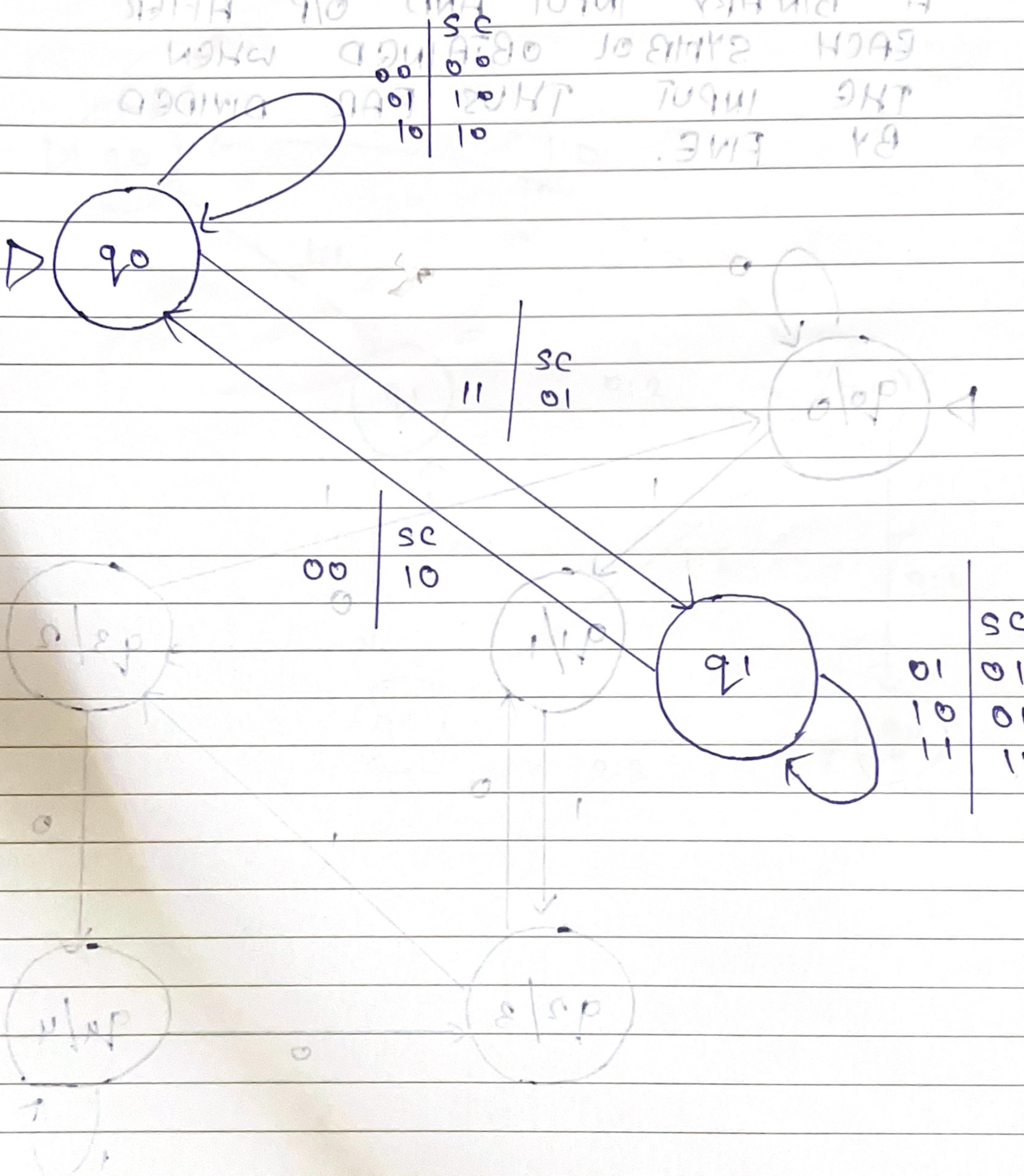
1 1 sp sp ip ip ip

— DESIGN A MOORE MC FOR BINARY ADDER

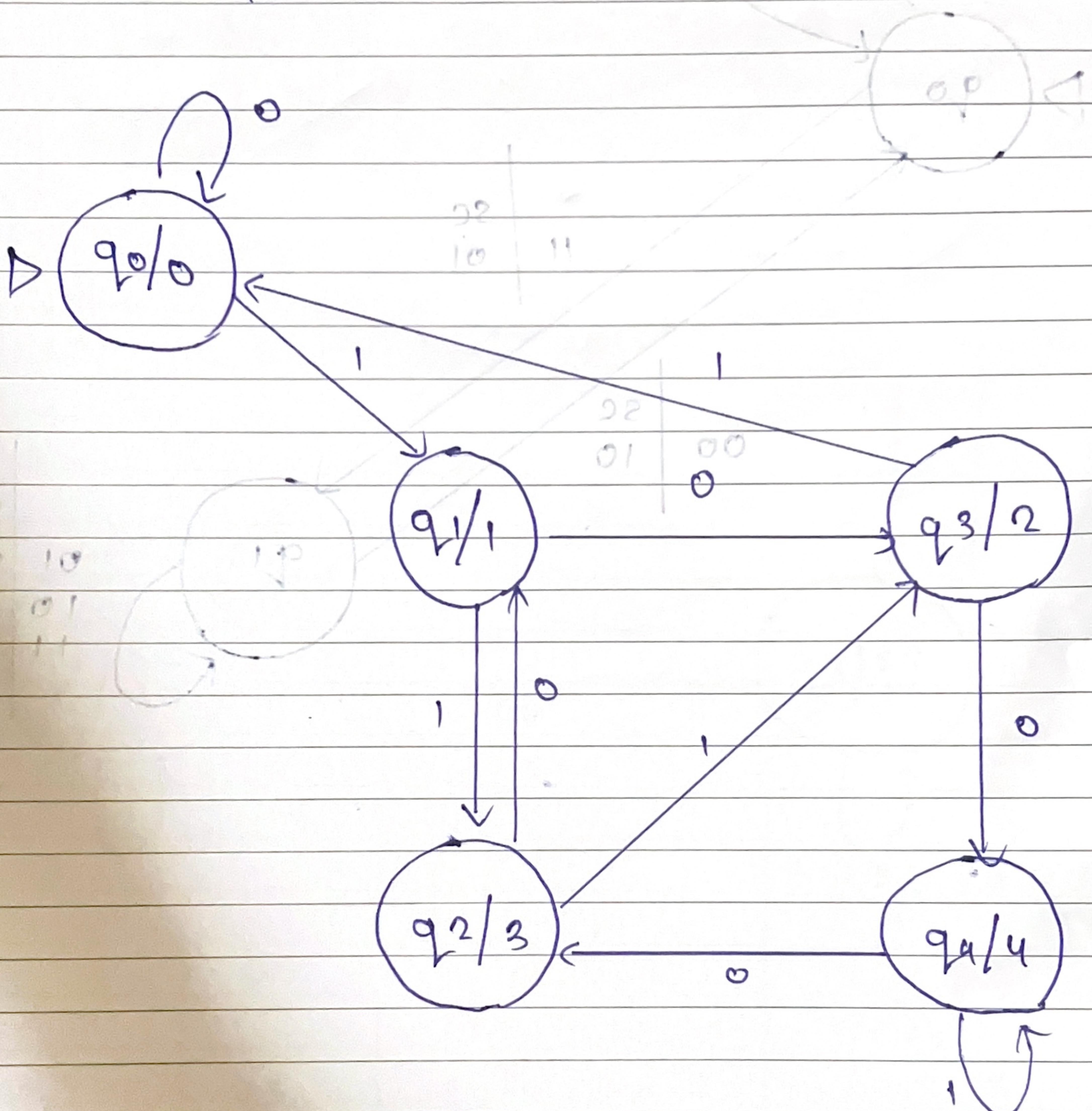


| | 00 | 01 | 10 | 11 | S | C | O/P |
|-------|-------|-------|-------|-------|---|---|-----|
| q_0 | q_0 | q_1 | q_1 | q_2 | 0 | 0 | O/P |
| q_1 | q_0 | q_1 | q_1 | q_2 | 1 | 0 | |
| q_2 | q_1 | q_1 | q_2 | q_3 | 0 | 1 | |
| q_3 | q_1 | q_2 | q_2 | q_3 | 1 | 1 | |

- DESIGN MEALY STATE/TM FOR BINARY ADDER -



— DESIGN NOARE M/C THAT TAKES UNBEGD —
 A BINARY INPUT AND O/P AFTER
 EACH SYMBOL OBTAINED WHEN
 THE INPUT THUS FAR DIVIDED
 BY FIVE.



[MEALY]

