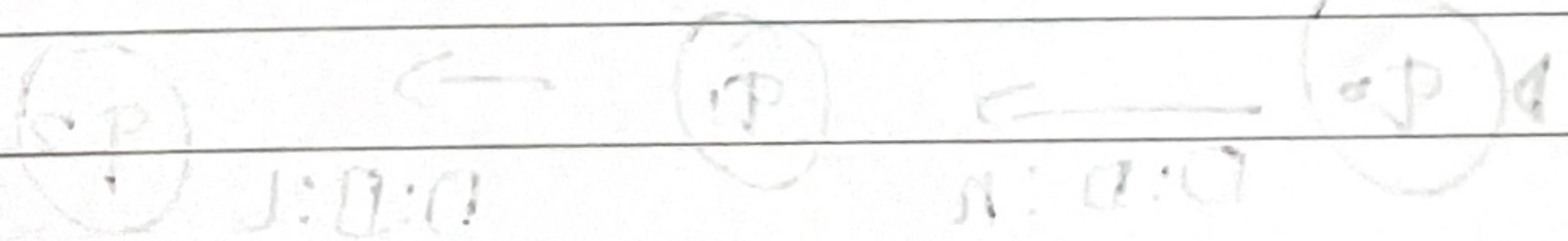
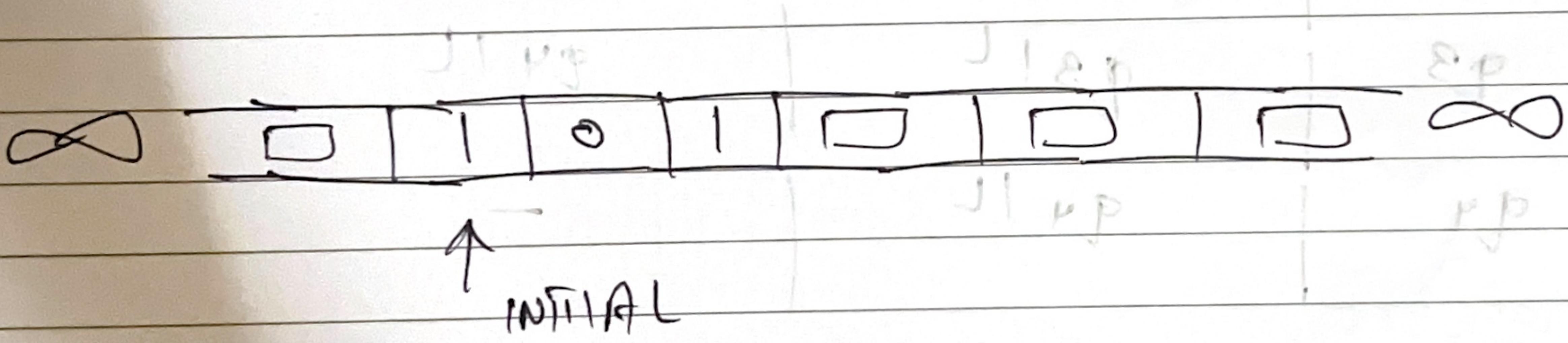
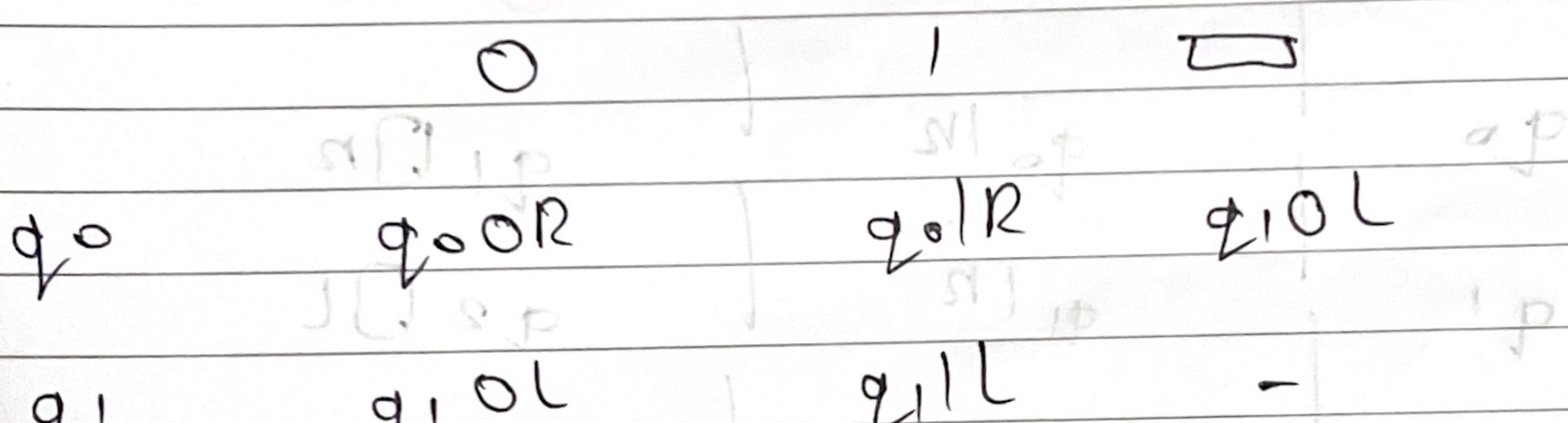
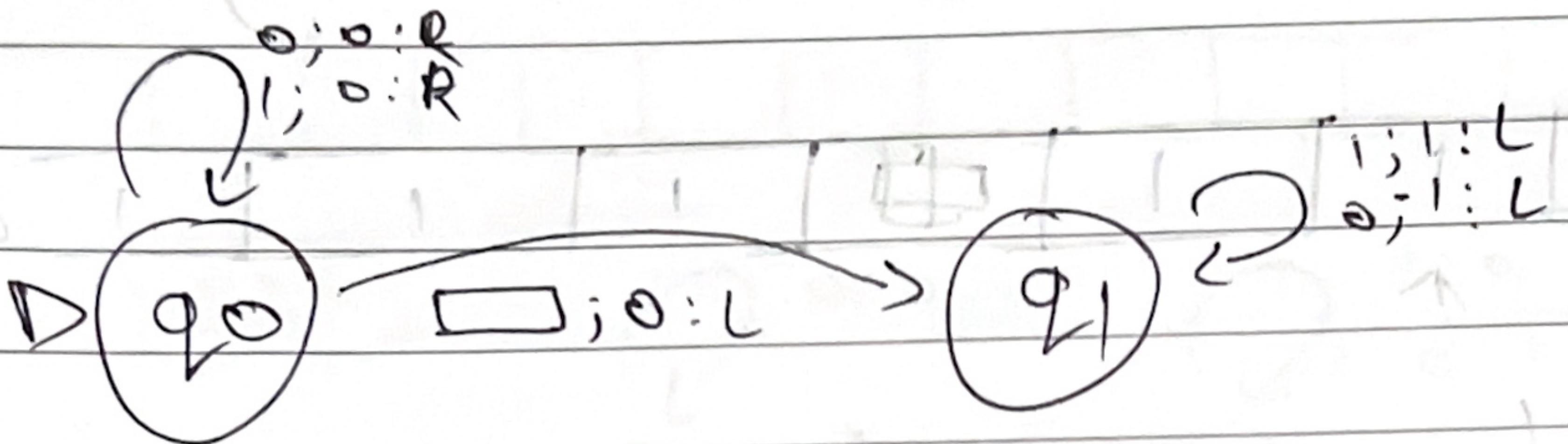


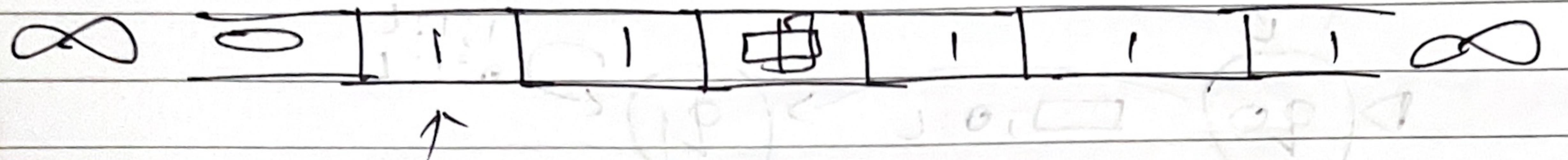
TURING MACHINE

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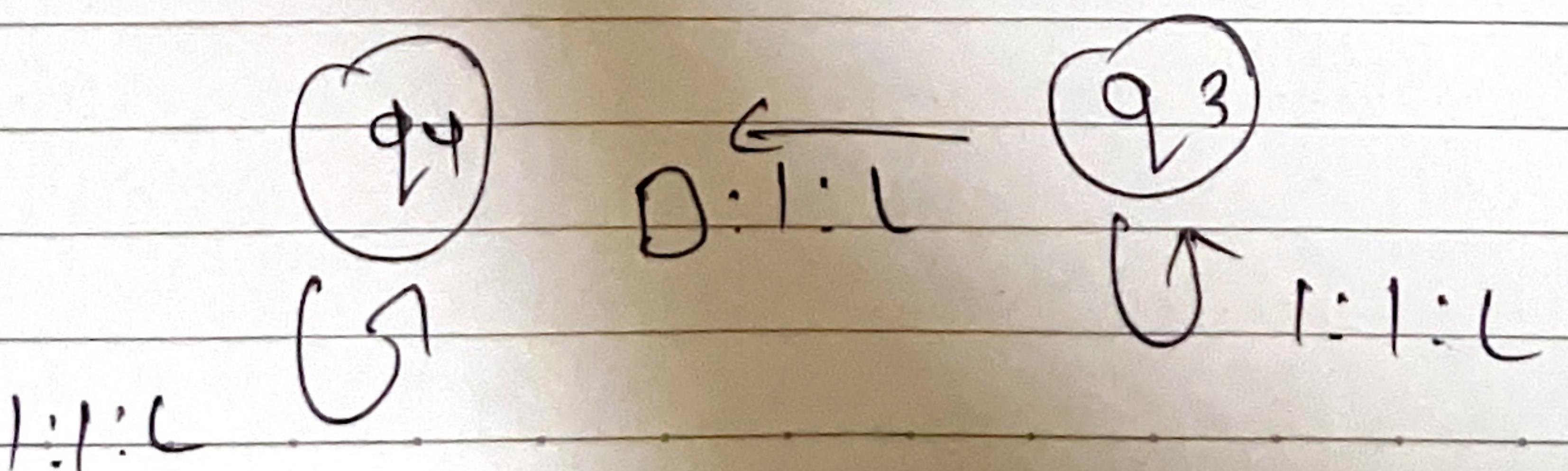
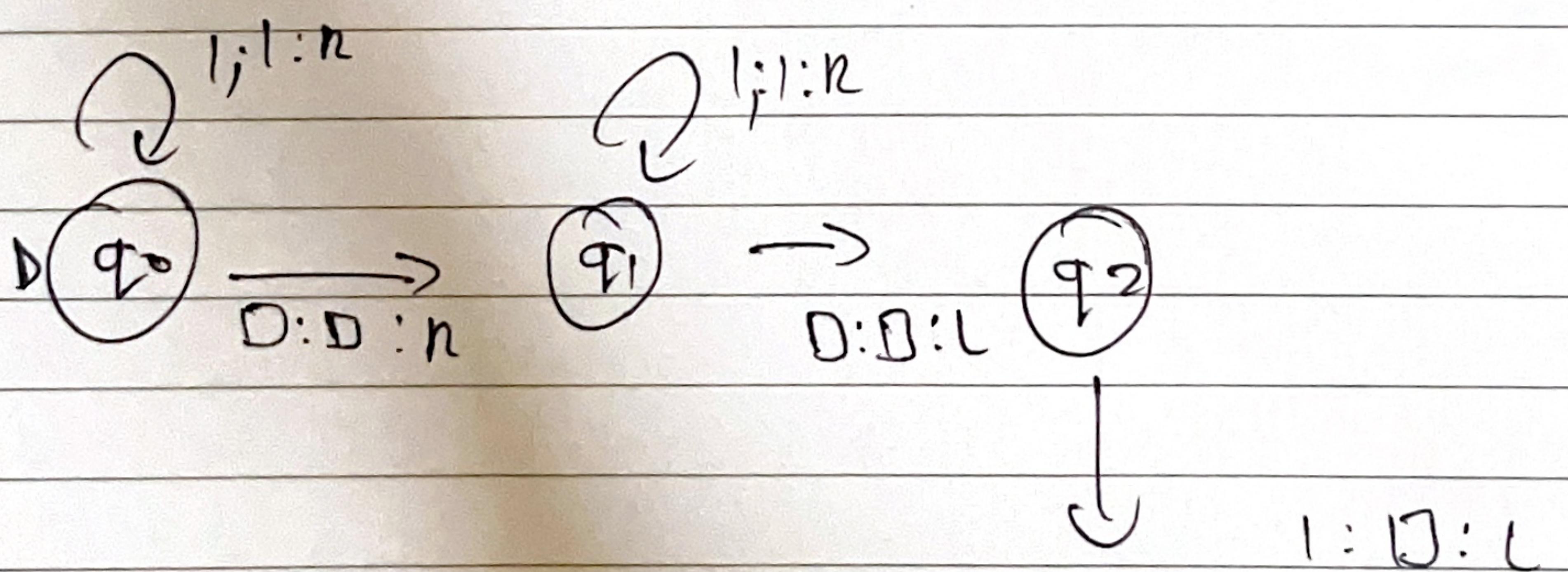
DESIGN TURING MACHINE TO DOUBLE



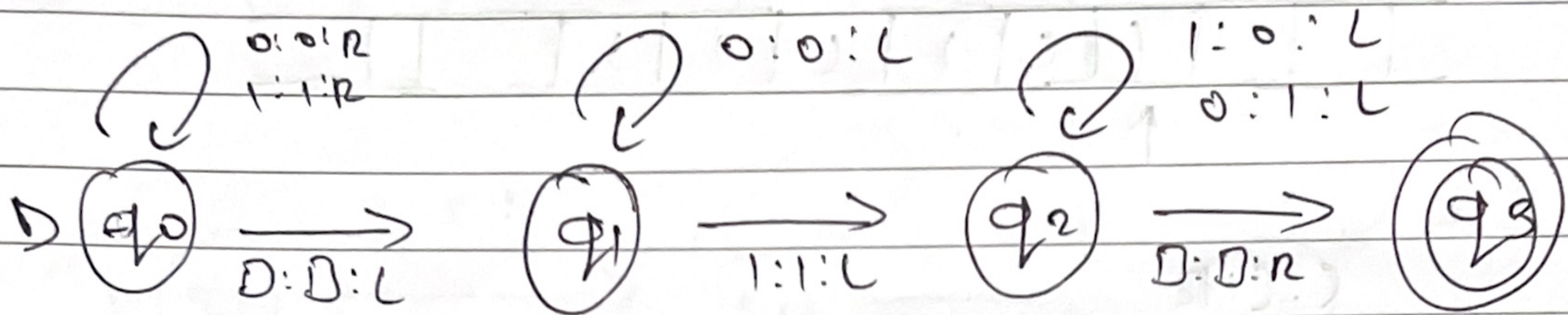
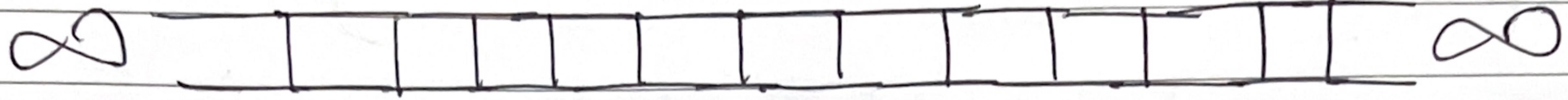
DESIGN OF A TURING MACHINE
TO ADD TWO UNARY



	1	1	0
q_0	$q_0 \text{ LR}$	$q_1 \text{ DR}$	
q_1	$q_1 \text{ LR}$	$q_2 \text{ DL}$	
q_2	$q_3 \text{ DL}$	-	
q_3	$q_3 \text{ LR}$	$q_4 \text{ LR}$	
q_4	$q_4 \text{ LR}$	-	



DESIGN A TURING MACHINE
TO DO 2's COMPLEMENT



#

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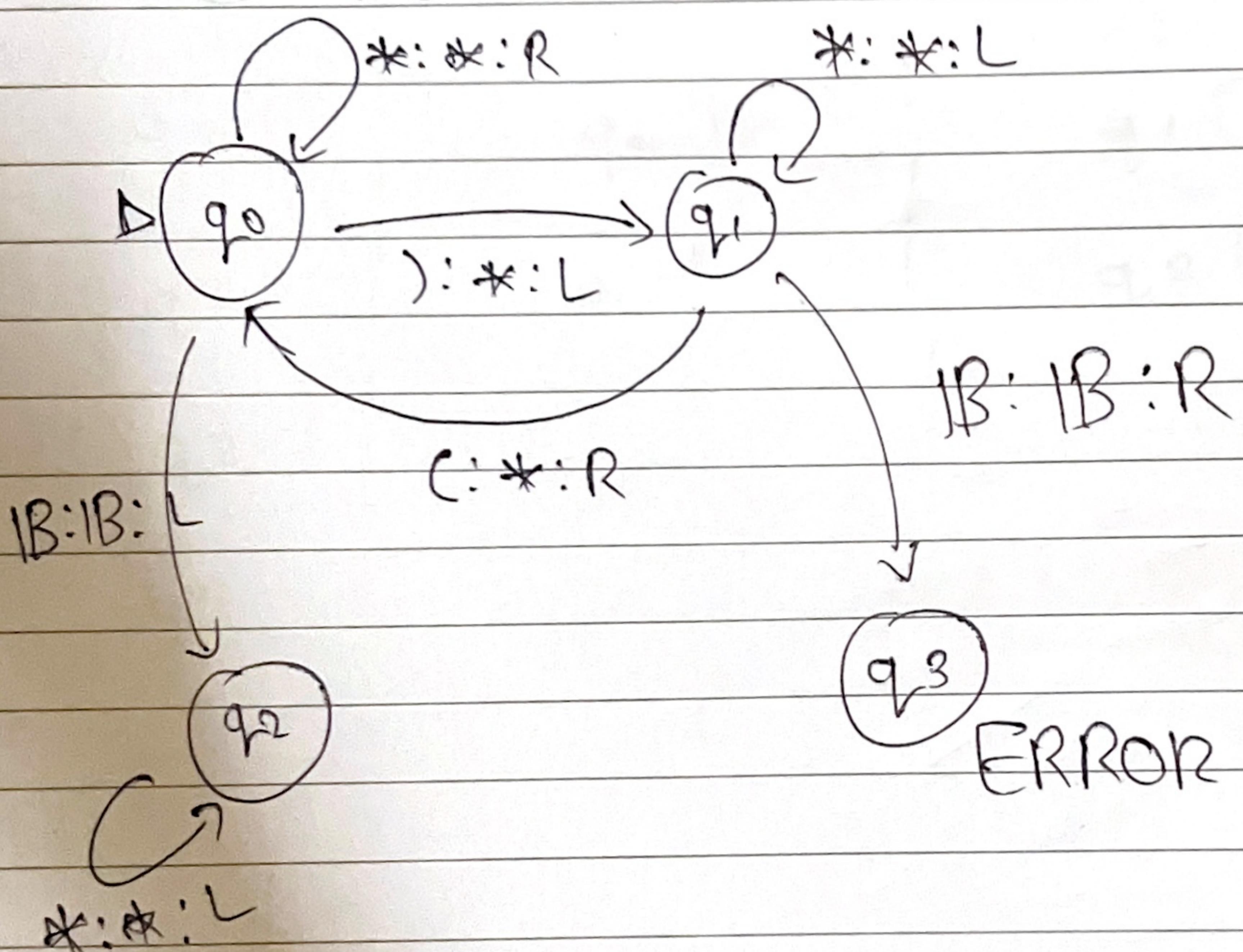
DESIGN A TURING MACHINE TO
CHECK WELL-FORMEDNESS OF
PARENTHESIS

[(*)] (()) ()



(: C : R

* : * : L



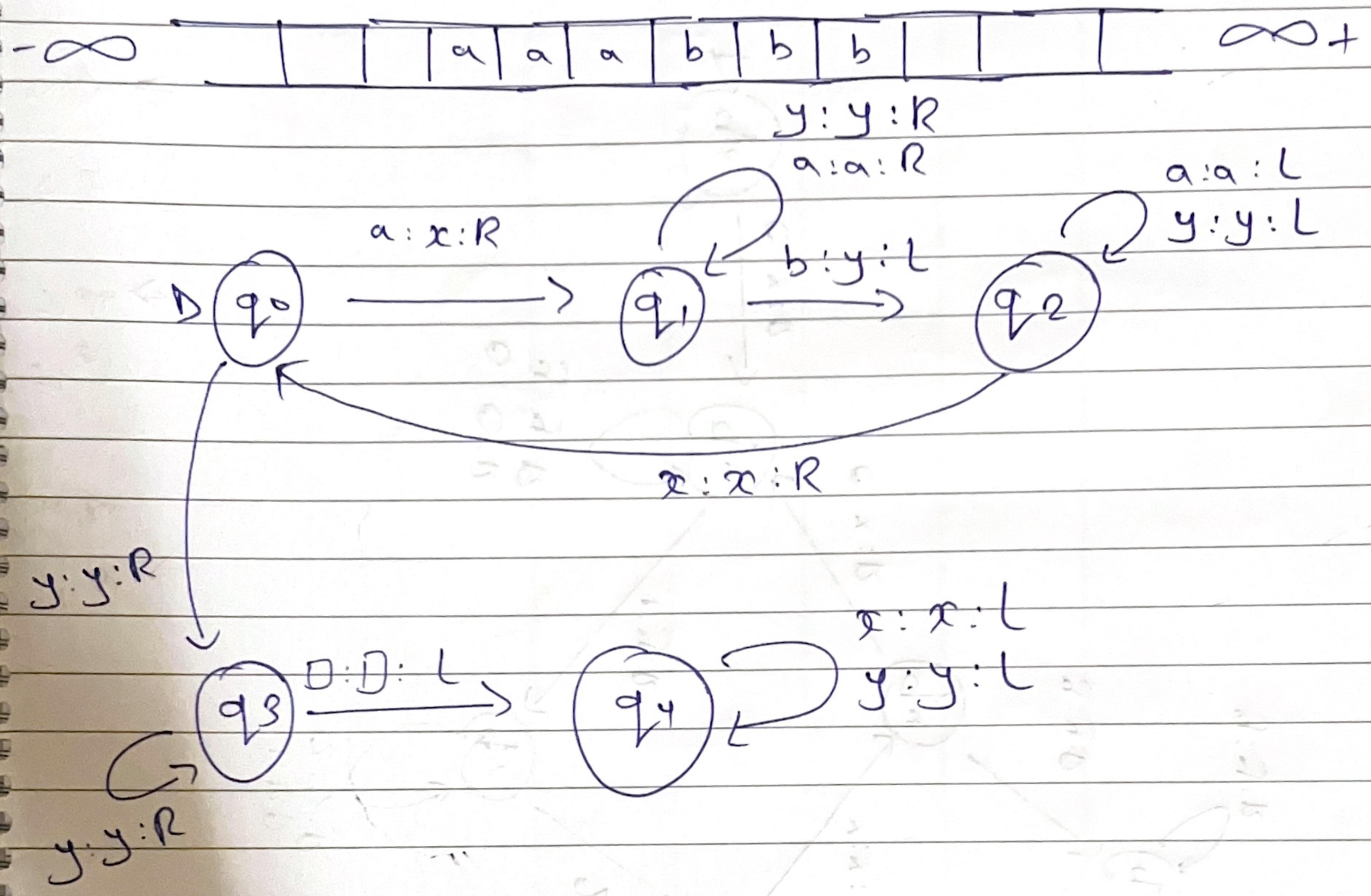
(

*

IB

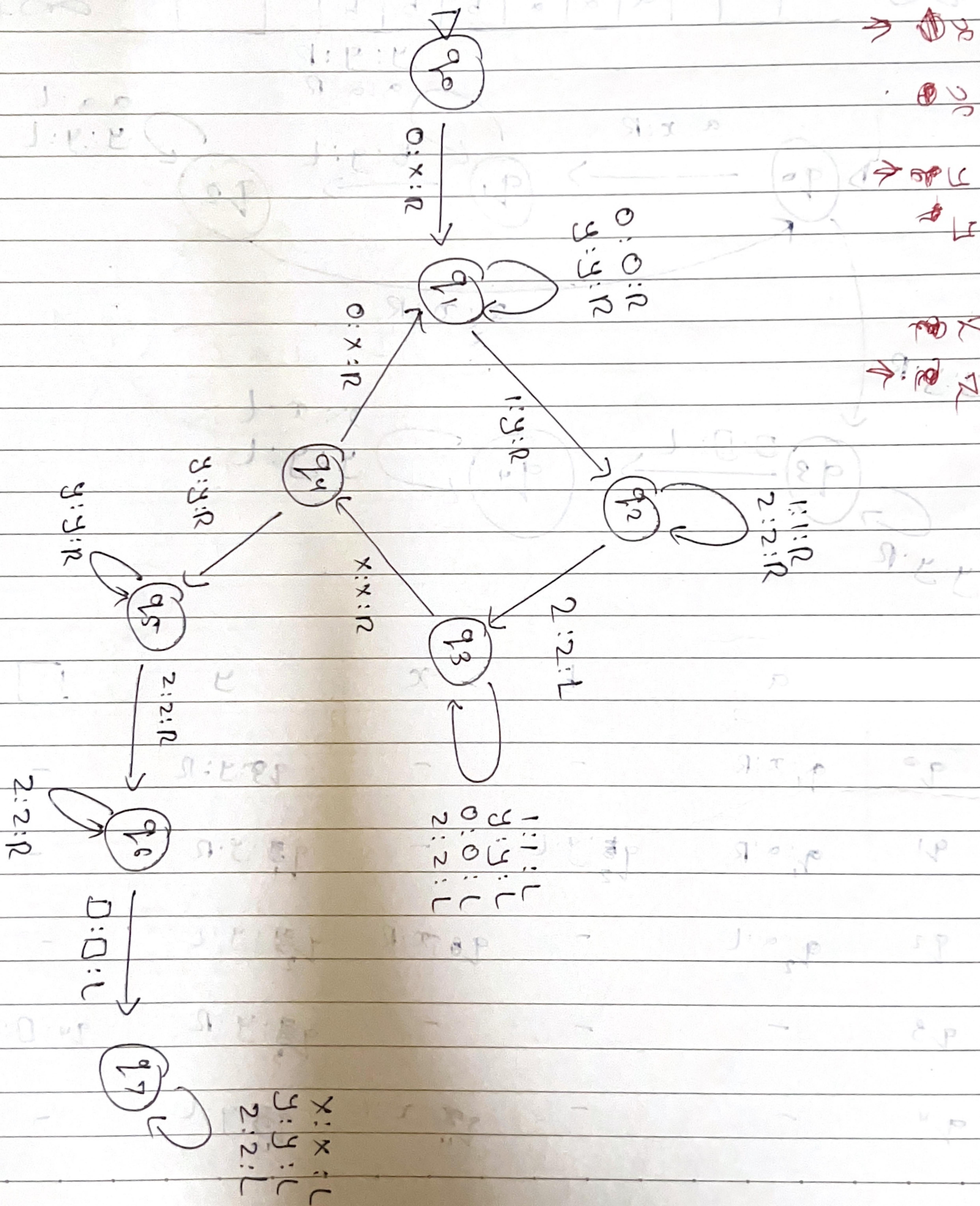
q_0	$q_0, C : C : R$	$q_1,) : * : L$	$q_2, * : * : R$	$q_2, IB : IB : L$
q_1	$q_0, C : * : R$	-	$q_1, * : * : L$	$q_3, IB : IB : R$
q_2	-	-	$q_2, * : * : L$	-
q_3	-	-	-	-

DESIGN A TURING MACHINE TO
RECOGNIZE $a^n b^n$ WHERE $n \geq 1$



	a	b	x	y	D
q_0	$q_1: x: R$	-	-	$q_3: y: R$	-
q_1	$q_1: a: R$	$q_2: y: L$	-	$q_1: y: R$	-
q_2	$q_2: a: L$	-	$q_0: x: R$	$q_2: y: L$	-
q_3	-	-	-	$q_3: y: R$	$q_4: D: L$
q_4	-	-	$q_4: x: L$	$q_4: y: L$	-

[DESIGN TURING MACHINE FOR
 $0^n, 1^n, 2^n$ WHERE $n >= 1$]



[DESIGN TURING MACHINE FOR
EVEN PALINDROMES, $\Sigma = \{x, y\}$]

