

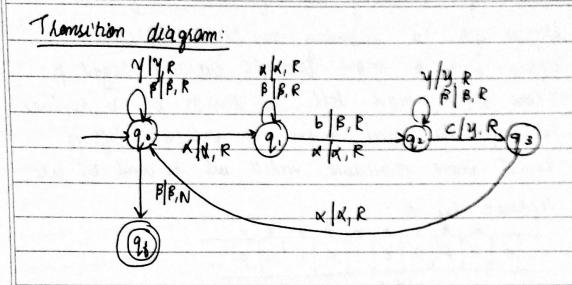
M. (Q, £, Г, 8, Q., B, F) Q. (q., q., q., q., q., q., q., q.) E. (0,13) Г. (0,1, X, B, B)

Transition Table:

	0	1	×	β	B
90	q. KR	92BR	9.00 R	-	
21	q, aR	qibR	2. KR	21BR	9286
92	93×L	-	Q2 XL	92BL	9. PN
93	qual	qual	93 XL	-	4. BR
9+	quar	92 b R	94 × R	-	gsBL
95	-	26 BL	25 KL	-	7
9.	q,aL	96 bL	26 a L	9. BL	21BR

And Logic Replace a by a and more sight in search of be Replace to by a mod more left in search of a seplace to by y and more left in search of a left all replacements more right in search of B to seach final state.

Instial configuration: m = 2



M: (QE, [, S, qo, B, F) Q: {qo, q, q2, q3, q4} E: {q, b, c} [: {q, b, c, x, p, y, p} F: {q, b}

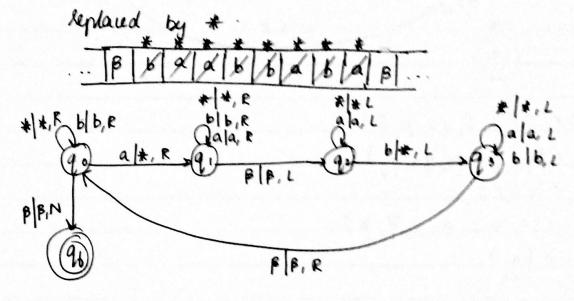
Q.4] Construct TM far checking well formediness of parentheses

Ans: Logic: Starch for 'a' moving in right direction.

Replace a by * more towards extreme right \$.

From these more left in search of b replace
'b' by star and more to extreme left \$.

Replat above proceduse untill all be and as are



 $M = \{0, 2, \Gamma, 8, q_0, \beta, F_3\}$ $9 = \{q_0, q_1, q_2, q_3\}$ $2 = \{q_1 b_3\}$ $\Gamma = \{q_1 b_3, \#, \beta\}$ $F = \{q_1\}$ Transition Table:

	a	ь	*	Δ.
90	9,*R	qo bR	20 #R	PERN
q.	qaR	9, bR	9, **	9.66
92	qual	as *L	94*1	-
93	as al	9366	9:*1	q.BR