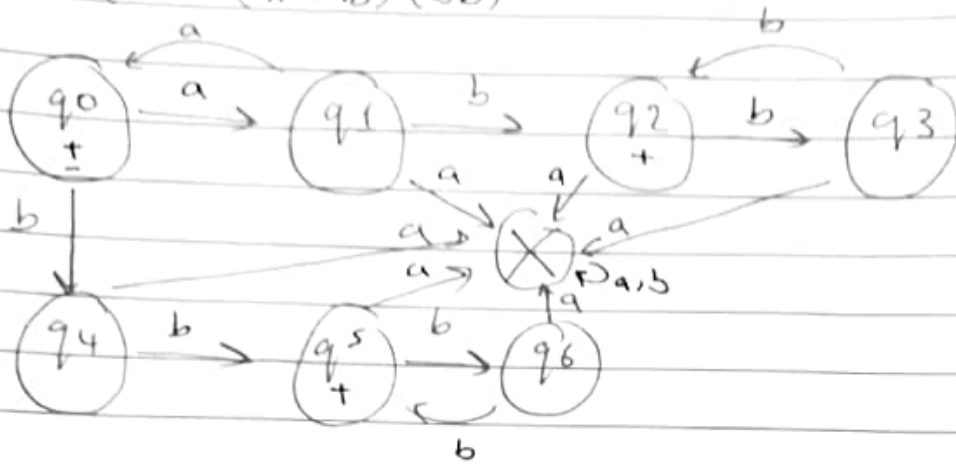


Dated: 12/00/35 Mohsin Ali Mirza

L1:

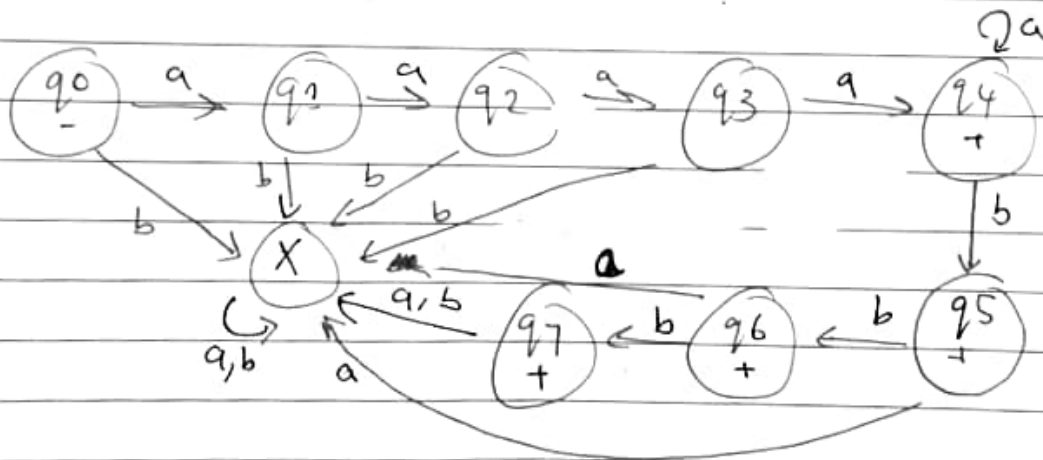
$$RE = (aa)^* (bb)^* + (aa)^* a (bb)^* b$$

$$= (aa)^* (\lambda + ab) (bb)^*$$



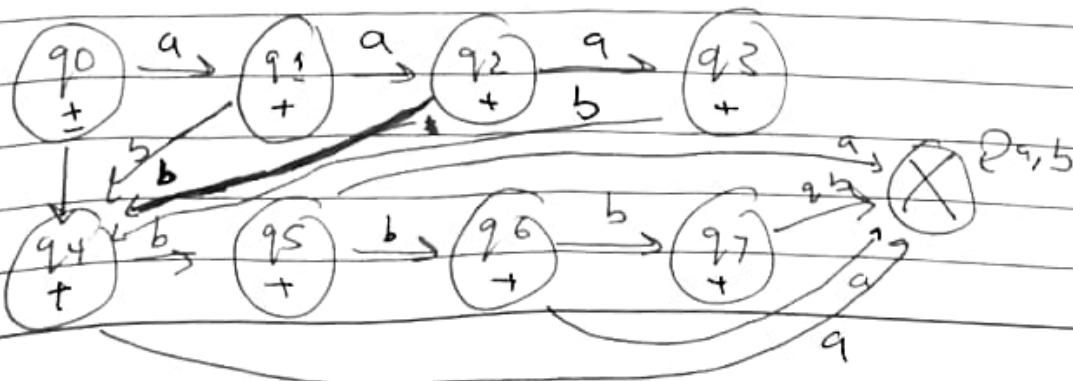
L2:

$$RE = (aaaa)a^* (\lambda + b + \lambda b + \lambda bb)$$



L3:

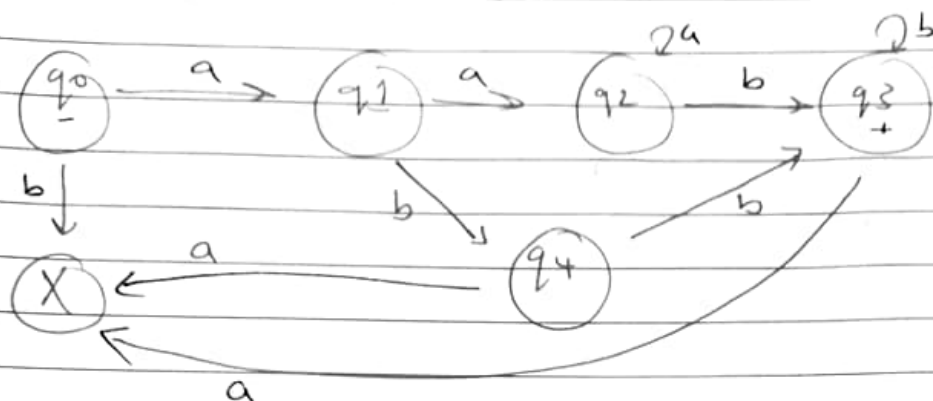
$$RE = (\lambda + a + aa + aaa) (\lambda + b + bb + bbb + bbbb)$$



Dated:

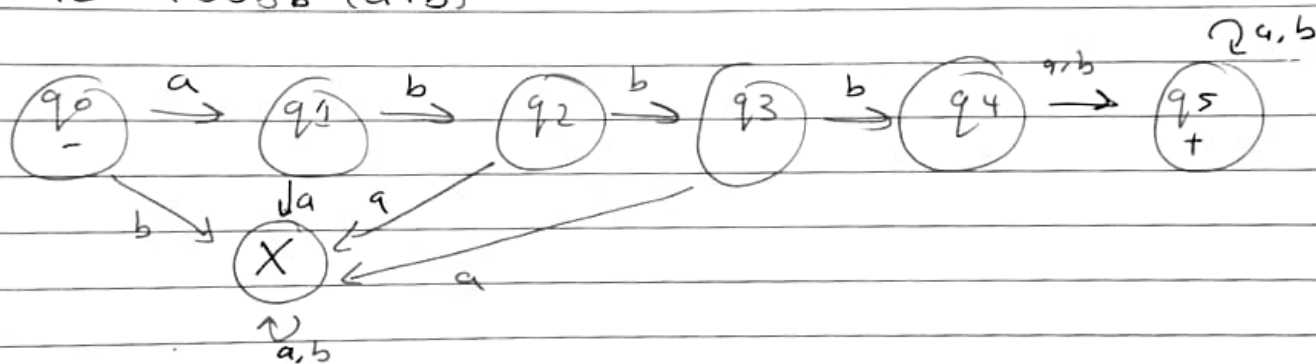
L4

$$RE: a(a)^+(b)^+ + (a)^+(b)^+b$$



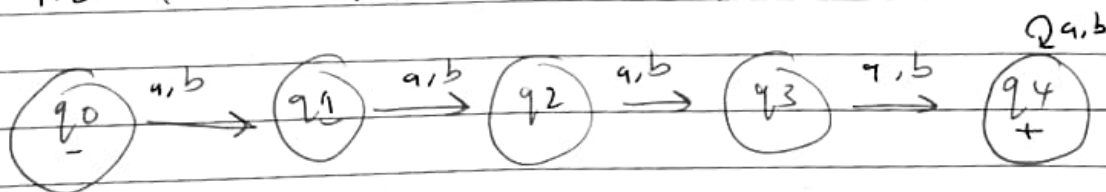
L5

$$RE: abbb^*(a+b)^+$$



L6

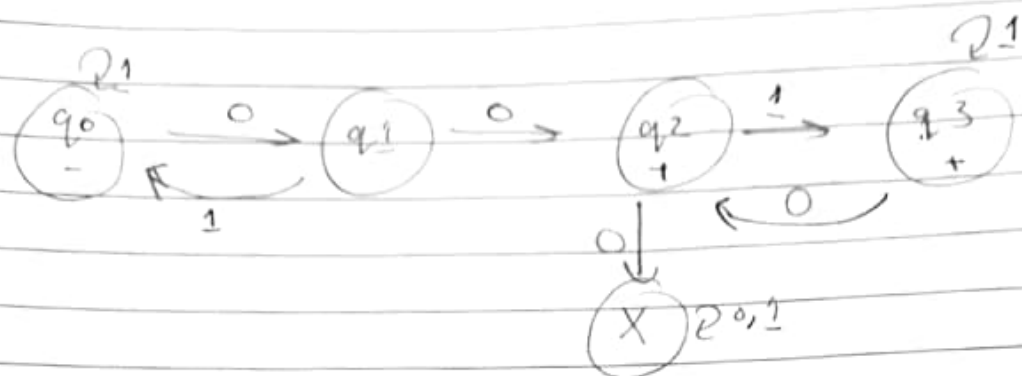
$$RE: (a+b)(a+b)(a+b)(a+b)(a+b)^+$$



Dated:

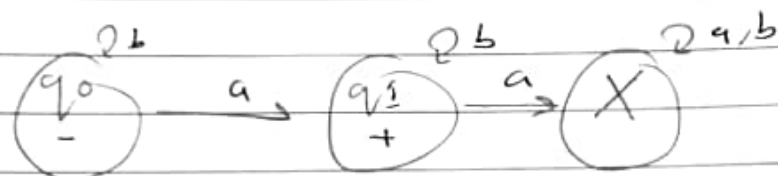
L7:

$$RE = (01 + 1)^* (00) (1+0)^*$$



L8:

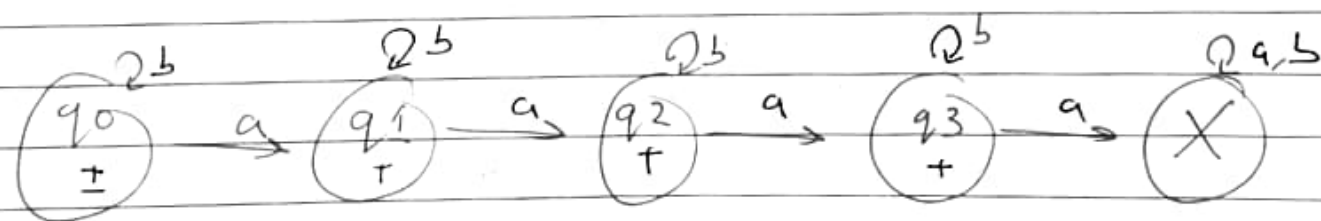
$$RE = b^* a b^*$$



L9:

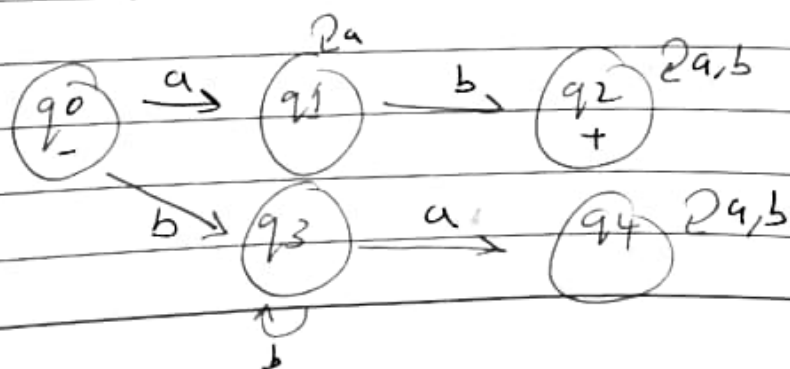
$RE =$

$$b^* (a+ \lambda) b^* (a+ \lambda) b^* (a+ \lambda) b^*$$



* L10:

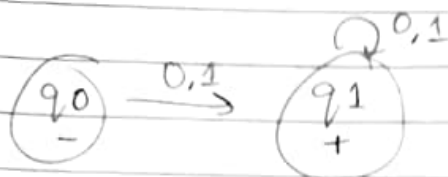
$$RE = (a+b)^* ab (a+b)^* + (a+b)^* ba (a+b)^*$$



Dated:

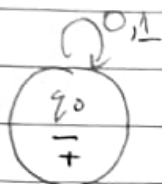
L11:

$$RE = (0+1)^+$$



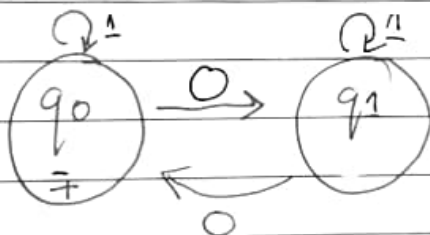
L12:

$$RE = \lambda$$



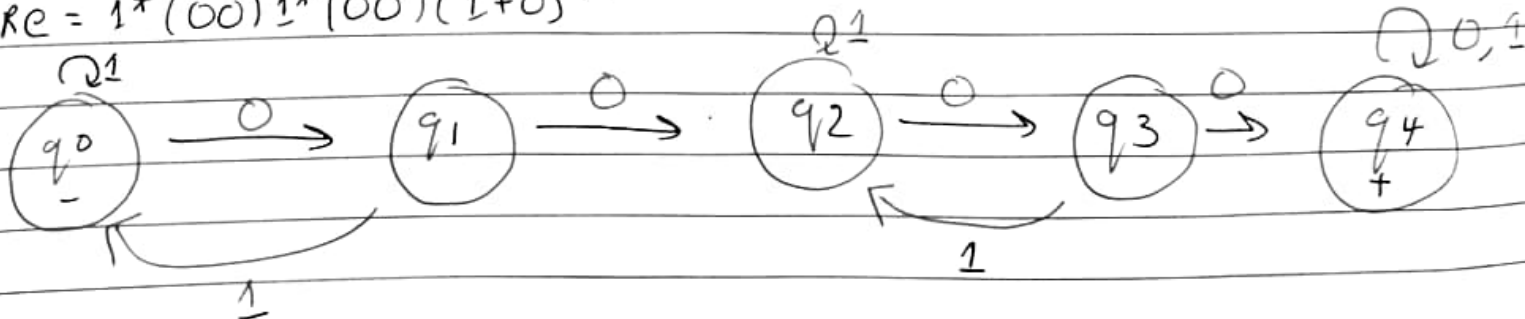
L13:

$$RE = 1^+ + (1^*01^*0)^+1^*$$



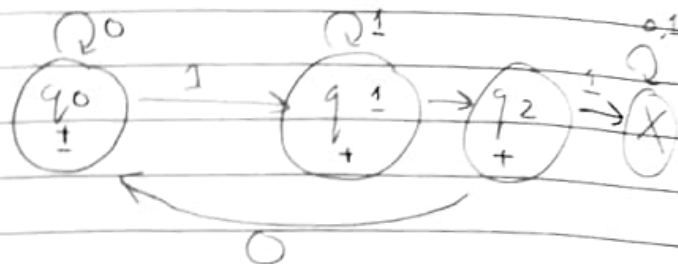
L14:

$$RE = 1^+(00)1^+(00)(1+0)^*$$



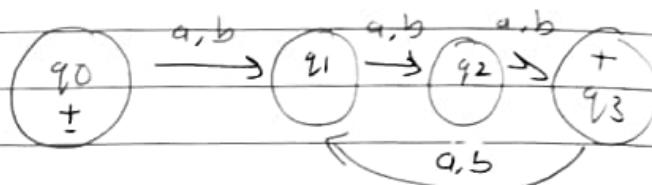
L15:

$$RE = 0^*(1^*000^*)^+1^*0^*$$



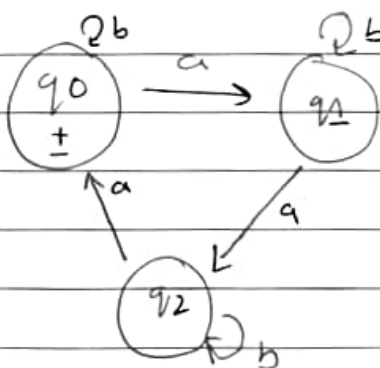
L16:

$$RE = ((a+b)(a+b)(a+b))^*$$



L17:

$$RE = b^*(ab^*ab^*ab^*)^*$$



Dated:

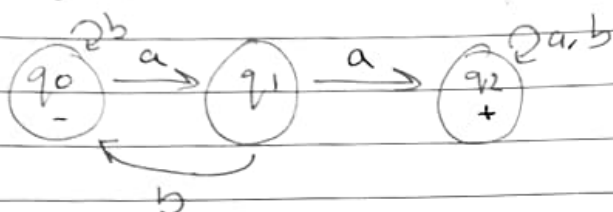
L18:

$$RE = b^+ a b^+ a b^+$$



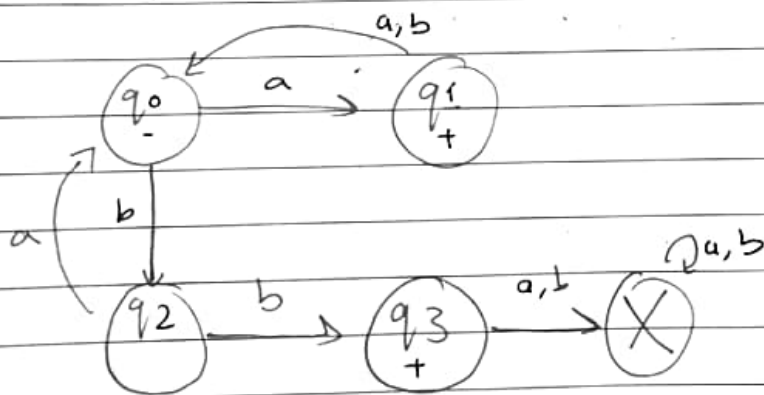
L19:

$$RE = (a+b)^+ a (a+b)^+ a (a+b)^+$$



L20:

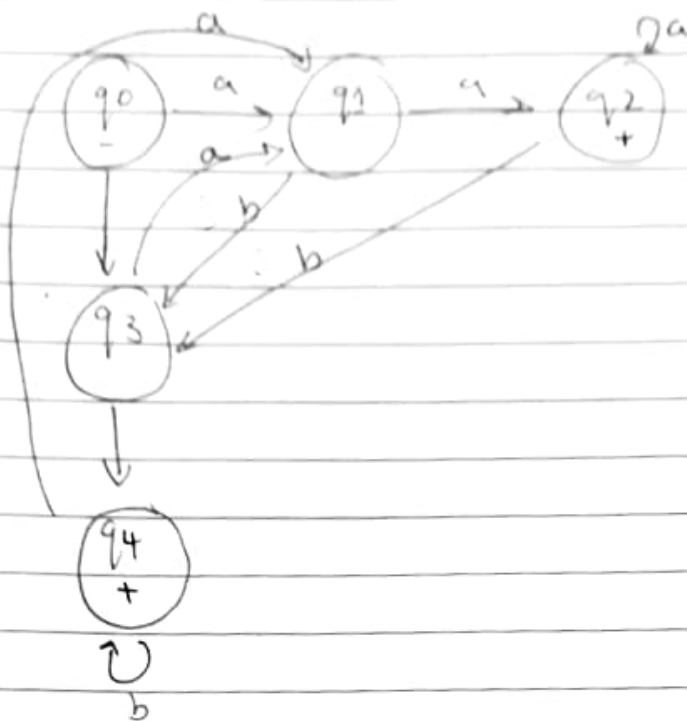
$$RE = (a+b)^+ (a+bb)$$



Dated:

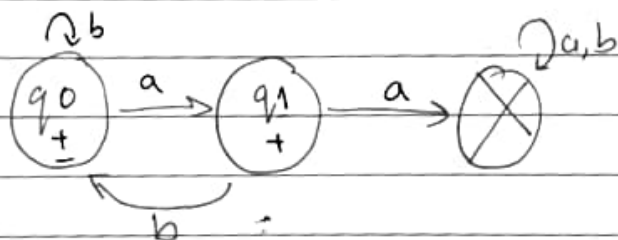
L21:

$$RE = (aa+bb)(a+b)^* + (a+b)^*(aa+bb)$$



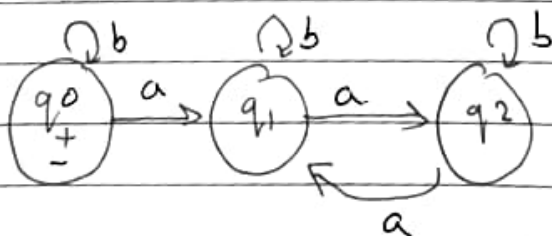
L22:

$$RE = b^* (ab^*)^*$$



L23:

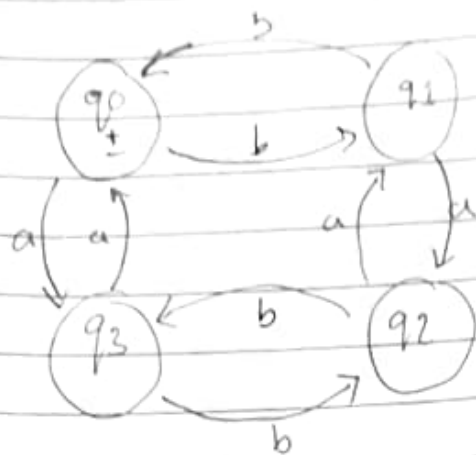
$$b^* (ab^*ab^*)^*$$



Dated:

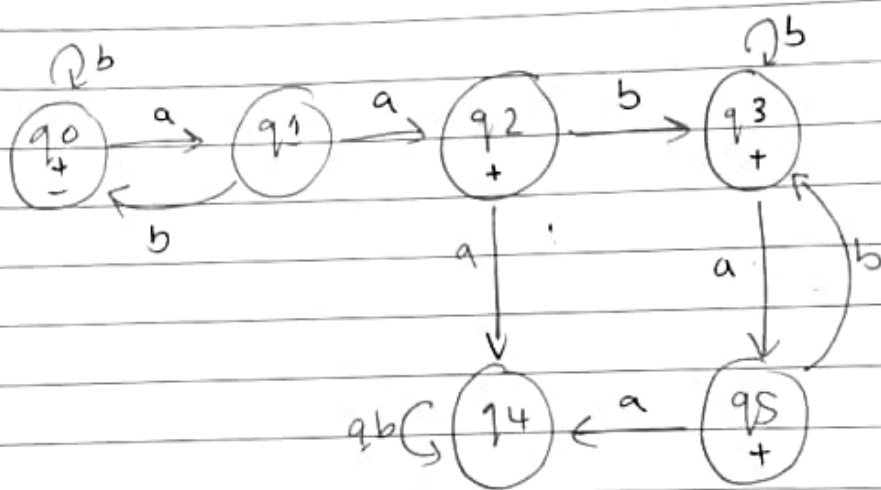
L24:

$$RE = ((a+bb)^* + (ab+ba)(a+bb)^*(ab+ba)^*)^*$$



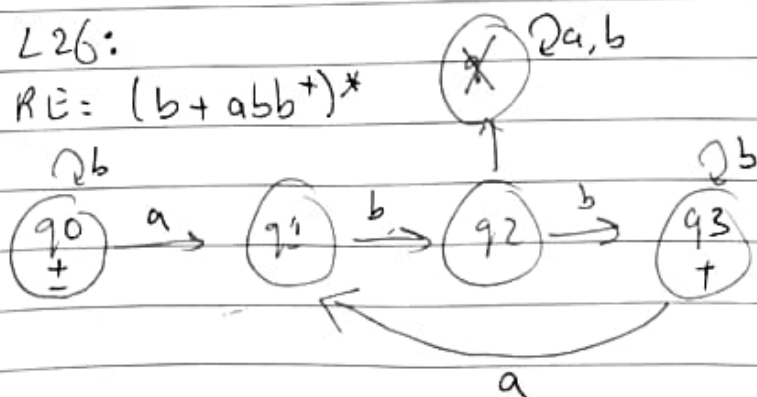
L25:

$$RE = (b+ab)^*(1+a+aa)(b+ba)^*$$



L26:

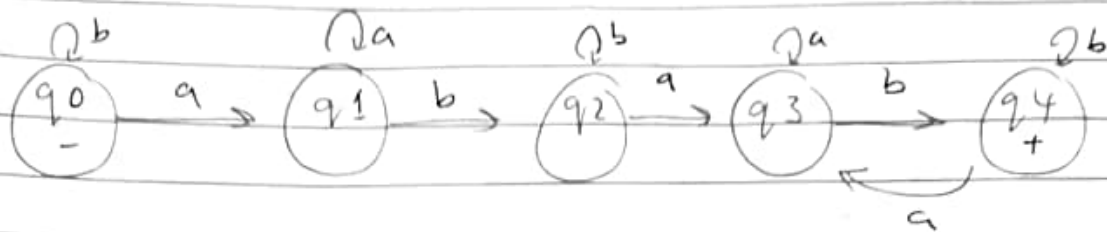
$$RE = (b+abb^+)^*$$



Dated:

L28:

$$RE = (a+b)^* abab (a+b)^*$$



L27:

$$RE = (a+b)^* aa (a+b)^* bb (a+b)^* + (a+b)^* bb (a+b)^* aa (a+b)^*$$

