

Start A a a a b b a a b b E

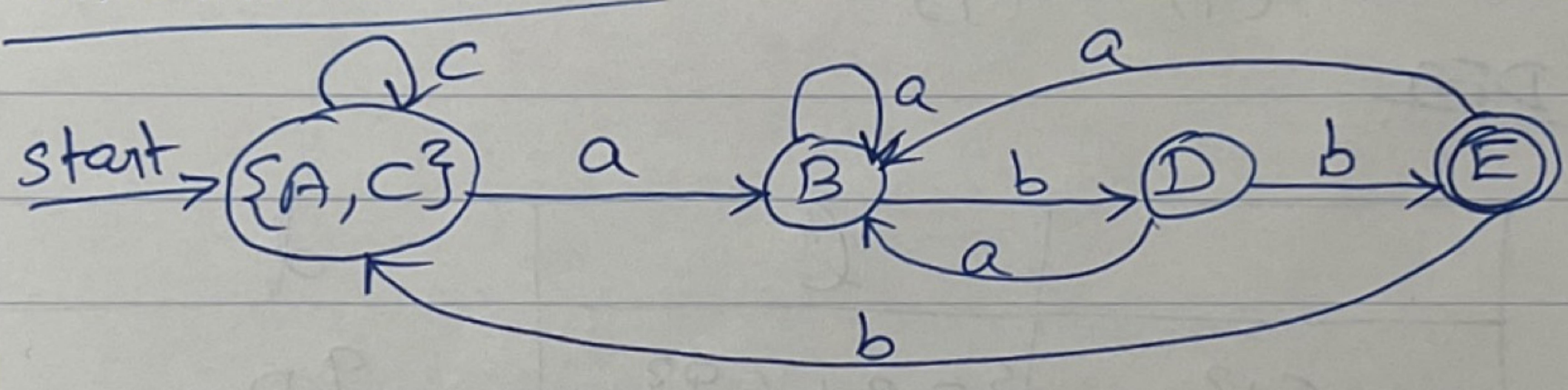
 $T_0 = \{A, B, C, D3, \{E3\}$ 

	A	13	-	1	
	1				
6				2	


$$T_2 = \{A, C3, \{B3, \{D3, \{E3\}\}\}\}$$

		1	3	0	2	E
	2	7	-7	7	7	7
		6	8	6	9	6
U						

Minimized DFA.



DFA.		
E-closure		
ECLOSE(1) = 513		
11 (2) = { 2,3,4,6,93		
"(3)={3,43		
"(4) = \ 43	?	
11 (5) = { 5,8,3,4,5,6,8,9		
"(6) = {63		
11 (8) = \(\frac{2}{3},4\), \(6\), \(8\), \(9\)		
11 (9) = 593		
DFB		4
	9	
-> {13	VD	



R22	E+0(E)* 1	E+01
R23	1+0(2)*0	1+00
R31	$\phi + \phi (z)^* =$	φ
R(3)	$\phi + \phi (\varepsilon)^*$	p
R33	(EtOt) + \$ (E) * 0	2+0+1
K=2		
	By direct substitution	
R,,	E+1(E+01)* 0	E+1(01)*0 =(01)
R(2)	1+1(e+01)* (E+01)	1+1(01) 1(01)*

$$R_{31}^{(2)} \phi + \phi (\varepsilon + 0)^{*} 0 \qquad \phi$$

$$R_{32}^{(2)} \phi + \phi (\varepsilon + 0)^{*} (\varepsilon + 0) \qquad \phi$$

$$R_{33}^{(2)} = (\varepsilon + 0 + 1) + \phi (\varepsilon + 0)^{*} (\varepsilon + 0 + 1)$$

$$K = 3$$

$$R_{11}^{(2)} = R_{12}^{(2)} + R_{13}^{(2)} (R_{32}^{(2)})^{*} (R_{3j}^{(2)})$$

$$RE = R_{13}^{(3)}$$

$$R_{13}^{(3)} = [0 + 1 (0)^{*} (+00)] + [0 + 1 (0)^{*} (+00)]$$

$$(\varepsilon + 0 + 1)^{*} (\varepsilon + 0 + 1)$$

$$= [0 + 1 (0)^{*} (+00)] + [0 + 1 (0)^{*} (+00)] (0 + 1)^{*}$$

$$RE = [0 + 1 (0)^{*} (+00)] + [0 + 1 (0)^{*} (+00)] (0 + 1)^{*}$$

$$RE = [0 + 1 (0)^{*} (+00)] + [0 + 1 (0)^{*} (+00)] (0 + 1)^{*}$$