

$\delta_a(e)$ - expresia care rămâne de citit din e după ce am citit a

$$\delta_a(ab) = b$$

$$\delta_a(e_1.e_2) = \delta_a(e_1).e_2 + \varepsilon?(e_1)\delta_a(e_2)$$

$$\delta_a(a^*b) = \delta_a(a)b + \text{empty} \cdot \delta_a(b)$$

$$\delta_a(b) = \begin{cases} \varepsilon, & a=b \\ \text{empty}, & a \neq b \end{cases}$$

$$e = \underline{b(a+c)^*b(aa+cc)^*}$$

$$\delta_a(e) = \delta_a(\underline{b(a+c)^*b(aa+cc)^*})$$

$$\delta_b(e) = \delta_b(\underline{b(a+c)^*b(aa+cc)^*})$$

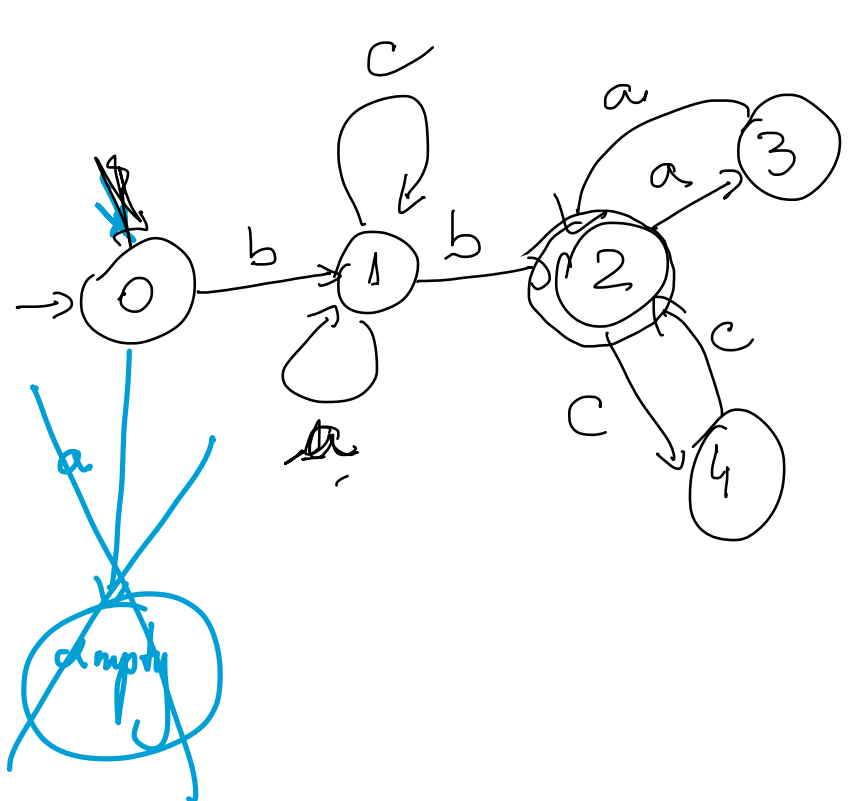
$$= (a+c)^*b(aa+cc)^* \leftarrow 1$$

$$\delta_c(e) = \text{empty}$$

$$\delta_a((a+c)^*b(aa+cc)^*) = (a+c)^*b(aa+cc)^*$$

$$\delta_b((a+c)^*b(aa+cc)^*) = \delta_b((a+c)^*)b(aa+cc)^* + \delta_b(\underline{b(aa+cc)^*})$$

$$= (aa+cc)^* \leftarrow 2 \checkmark$$



$$\delta_a((aa+cc)^*) = \underline{a(aa+cc)^*} \leftarrow 3$$

$$\delta_c((aa+cc)^*) = \underline{c(aa+cc)^*} \leftarrow 4$$

finală dacă $\varepsilon \in L(e)$

5b) pt. expresia $b(a+c)^*b(aa+cc)^*$

$$t = \underline{b a c c b} b a a b a a \dots$$

poz. start (i)	poz. curentă (j)	stare (s)	decizia
0	0	0	pozitivă, $s=0$, $i++$ (zi)
1	1	0	pozitivă, $s=next(0,b)=1$, $j++$
	2	1	pozitivă
	3	1	pozitivă
	4	1	pozitivă
	5	1	pozitivă
	6	2	pozitivă

final \rightarrow return 1