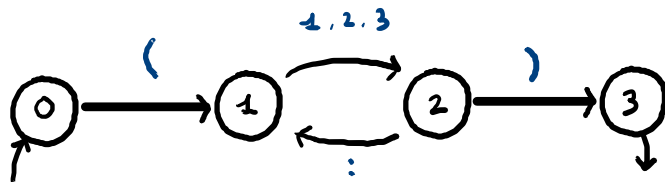
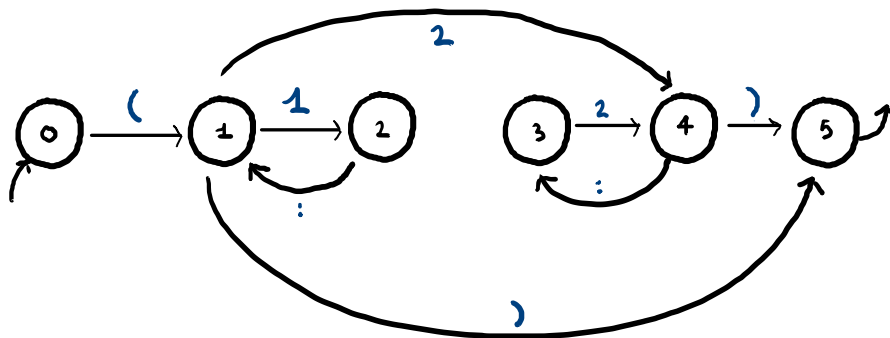


$m^0 1$

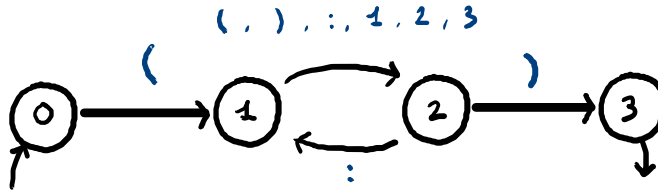
1.



2.



3.

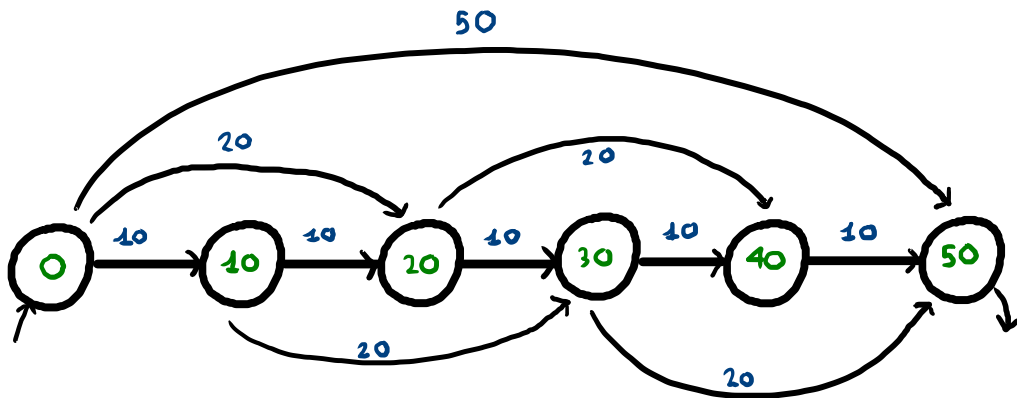


4.

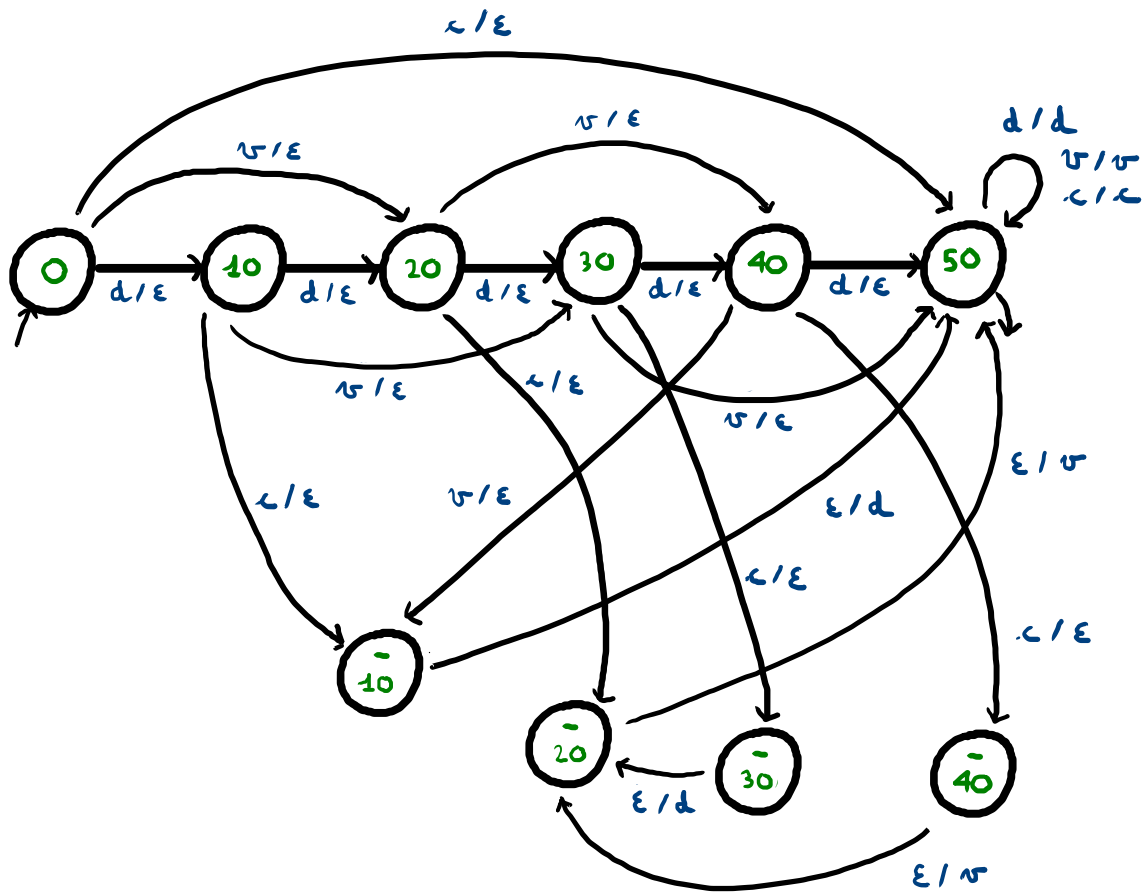
impossible avec une mémoire finie

m°2

1 .

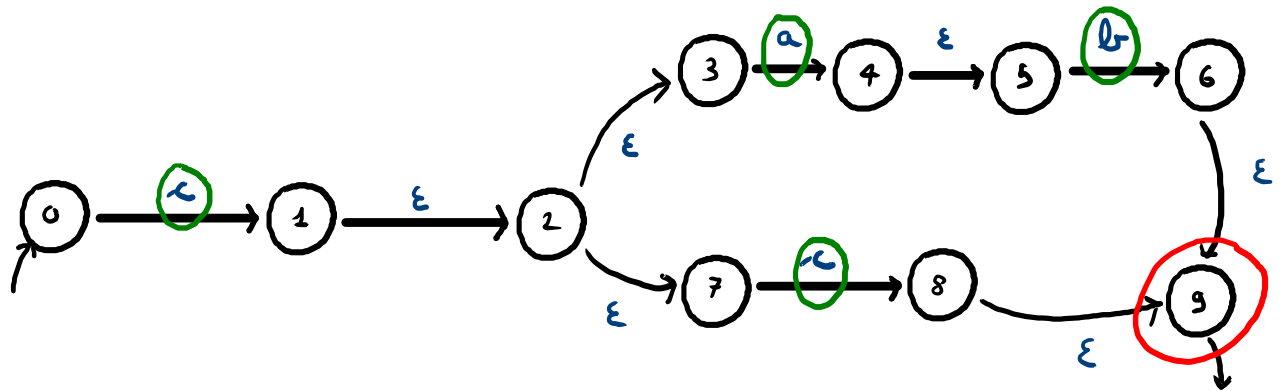


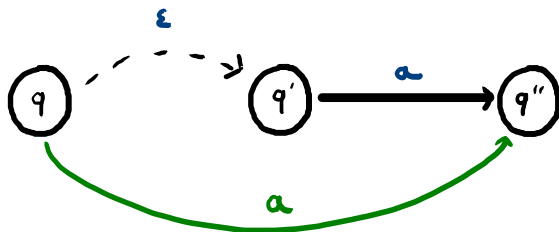
2.



m° 3

1. ϵ ($a^2 + \epsilon$)



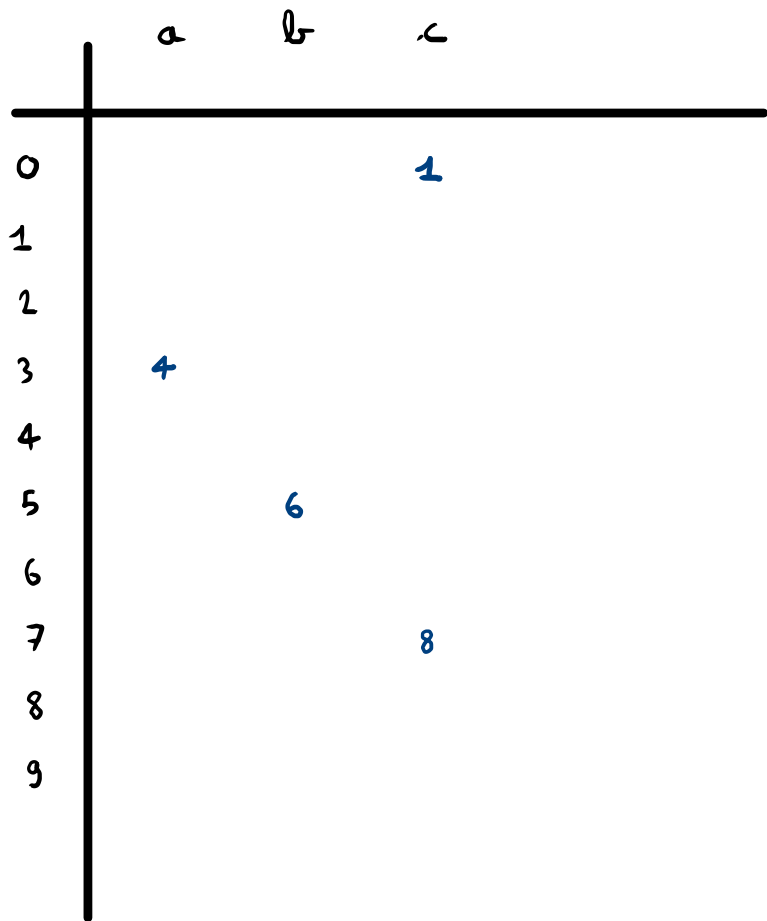


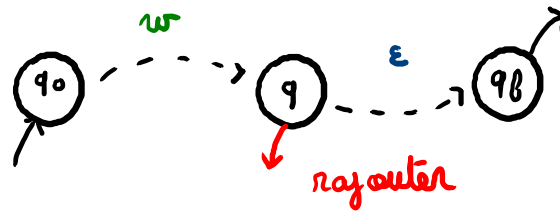
élimination arrière des ϵ - transitions

calcul de l' ϵ - fermeture

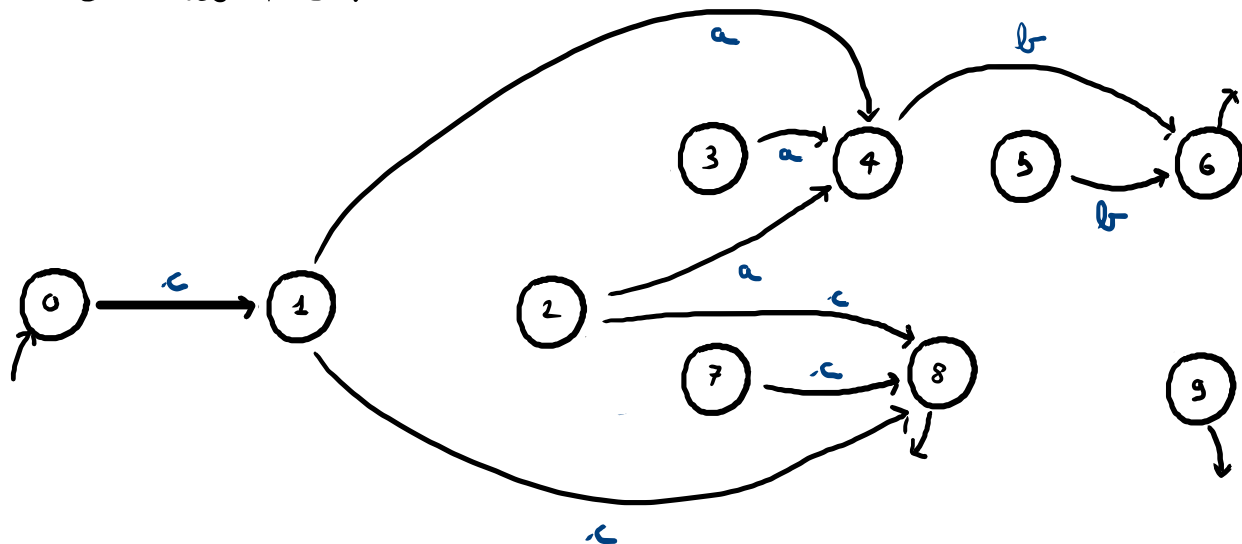
$$q \xrightarrow[\mathcal{R}]{\epsilon^*} q' \quad \text{et} \quad q' \xrightarrow[\mathcal{R}]{\epsilon^*} q'' \quad \text{alors} \quad q \xrightarrow[\mathcal{R}]{\epsilon^*} q''$$

	1	2	3 = 2 = fermeture
0	0	0	0
1	1 2	1 2 3 7	1 2 3 7
2	2 3 7	2 3 7	2 3 7
3	3	3	3
4	4 5	4 5	4 5
5	5	5	5
6	6 9	6 9	6 9
7	7	7	7
8	8 9	8 9	8 9
9	9	9	9

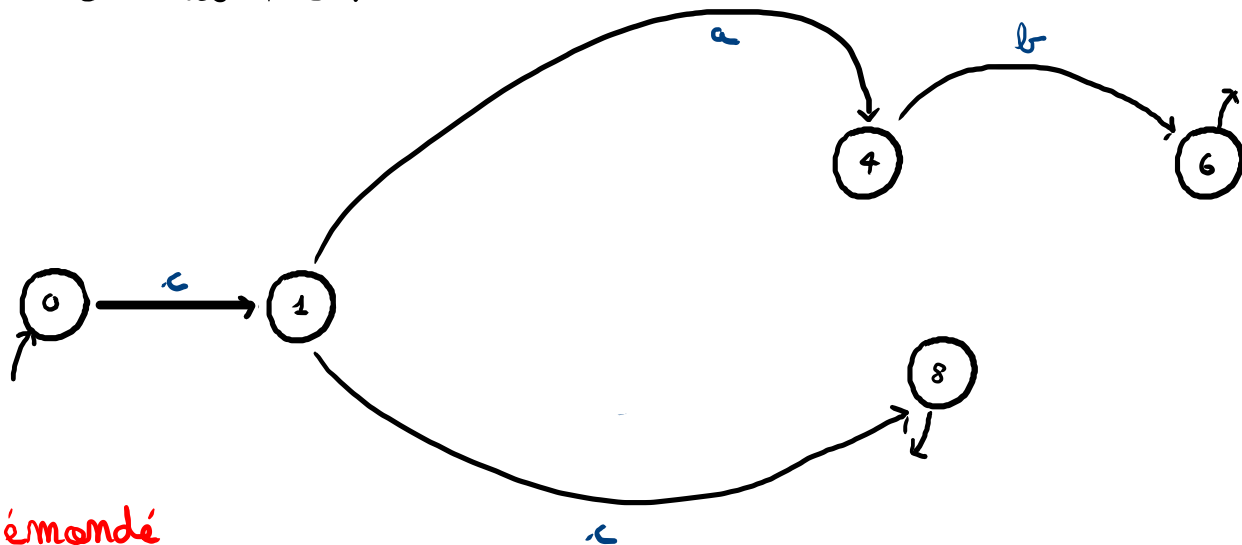




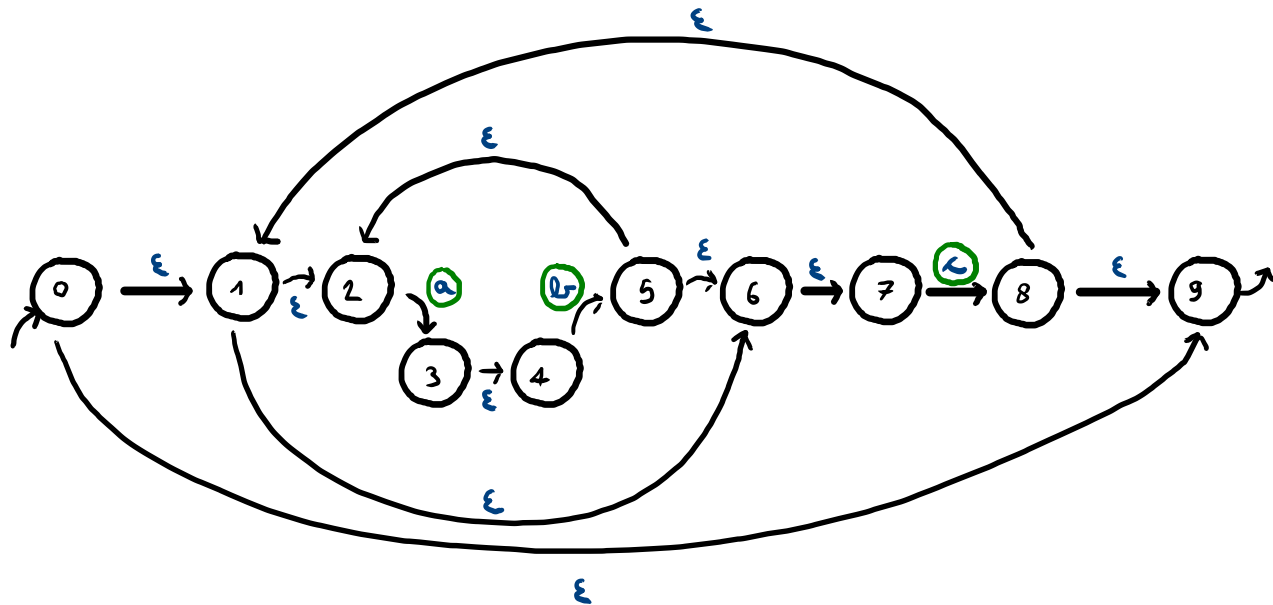
ϵ ($ab + \epsilon$)



$c (ab + c)$



3. $((abr + \epsilon)^* \cdot \epsilon)^*$
 $= ((abr)^* \cdot \epsilon)^*$

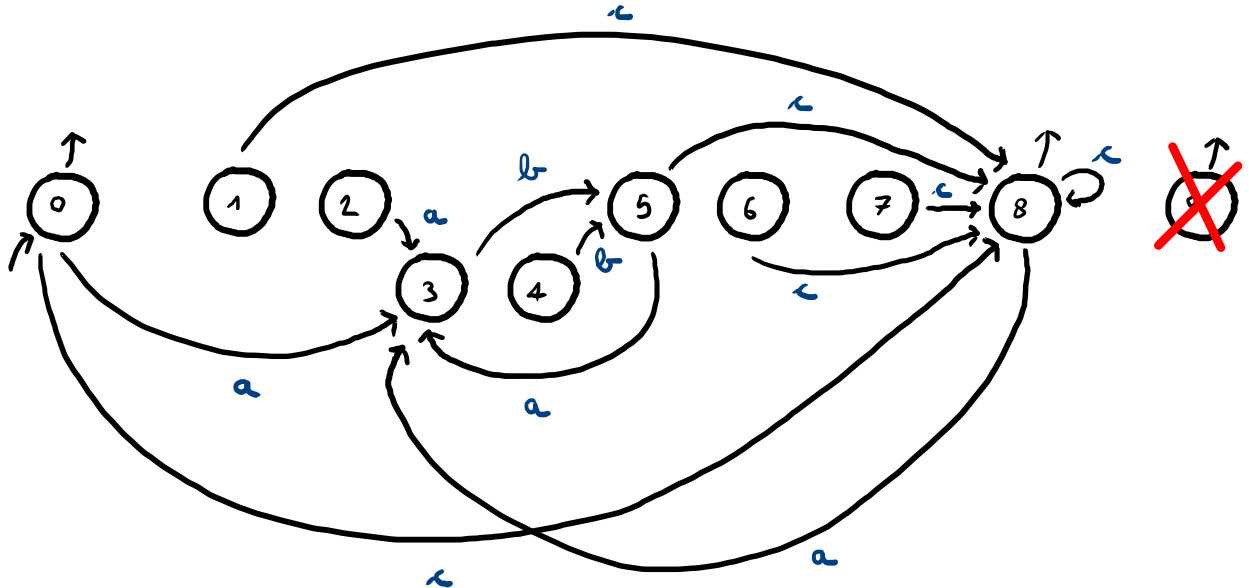


	1	2	3	4 ✓
0	0 1 9	0 1 9 2 6	0 1 9 2 6 7	0 1 9 2 6 7
1	1 2 6	1 2 6 7	1 2 6 7	1 2 6 7
2	2	2	2	2
3	3 4	3 4	3 4	3 4
4	4	4	4	4
5	5 6 2	5 6 2 7	5 6 2 7	5 6 2 7
6	6 7	6 7	6 7	6 7
7	7	7	7	7
8	8 9 1	8 9 1 2 6	8 9 1 2 6 7	8 9 1 2 6 7
9	9	9	9	9

	a	b	c
0			
1			
2	3		
3			
4		5	
5			
6			
7			8
8			
9			

$$((ab + \epsilon)^* \cdot c)^*$$

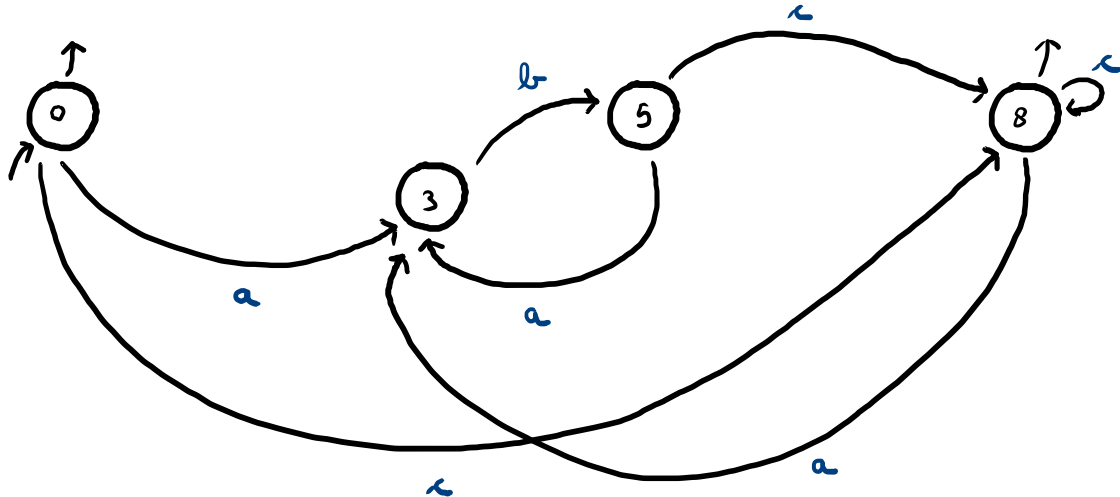
$$= ((ab)^* c)^*$$



$$((abr + \epsilon)^* \epsilon)^*$$

$$= ((abr)^* \epsilon)^*$$

émondé



2. 16 états, résultat :

