

Rapport de Projet: Automates

1. Test Concatenation (a.b)

Automate résultant de a.b :

Automate ((a).(b))

Nombre d'états 4

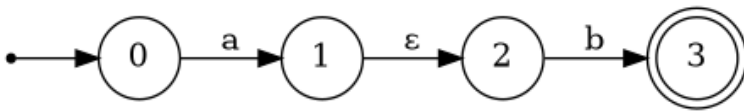
Etats finals [3]

Transitions:

(0, 'a'): [1]

(2, 'b'): [3]

(1, 'ε'): [2]



2. Test Union (a+b)

Automate résultant de a+b :

Automate ((a)+(b))

Nombre d'états 6

Etats finals [5]

Transitions:

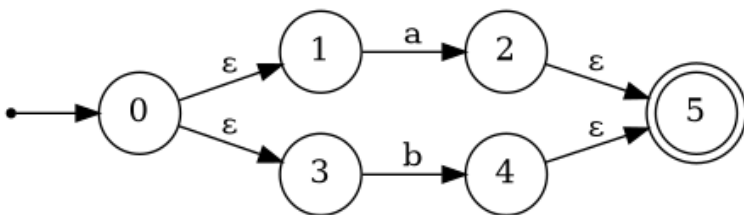
(1, 'a'): [2]

(3, 'b'): [4]

(0, 'ε'): [1, 3]

(2, 'ε'): [5]

(4, 'ε'): [5]



3. Test Etoile (a*)

Automate résultant de a* :

Automate ((a))*

Nombre d'états 4

Etats finals [3]

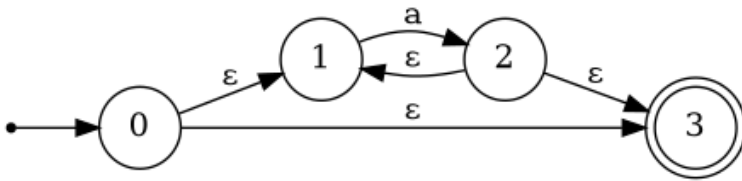
Transitions:

(1, 'a'): [2]

(0, 'ε'): [1, 3]

(2, 'ε'): [1, 3]

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3. Test Determinisation (a + ab)

Automate résultant de $a + ab$:

Automate $((a) + ((a).(b)))$

Nombre d'états 4

Etats finals [1, 3]

Transitions:

(0, 'a'): [1]

(0, 'b'): [2]

(0, 'c'): [2]

(1, 'a'): [2]

(1, 'b'): [3]

(1, 'c'): [2]

(2, 'a'): [2]

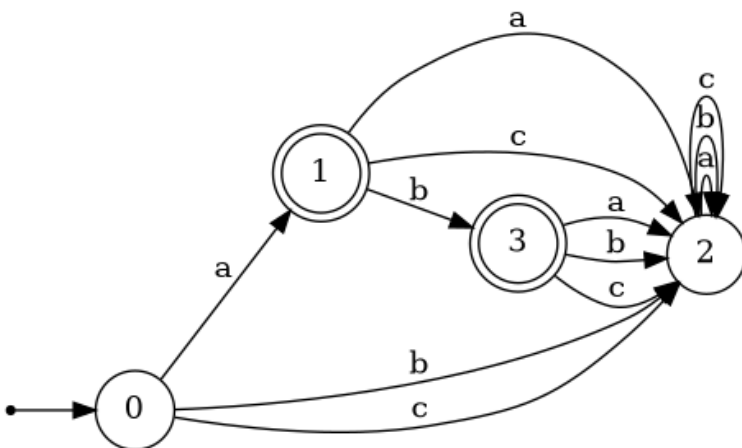
(2, 'b'): [2]

(2, 'c'): [2]

(3, 'a'): [2]

(3, 'b'): [2]

(3, 'c'): [2]



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3. Test Completion (a^*)

Automate résultant de a^* :

Automate $((a))^*$

Nombre d'états 3

Etats finals [0, 1]

Transitions:

(0, 'a'): [1]

(0, 'b'): [2]

(0, 'c'): [2]

(1, 'a'): [1]

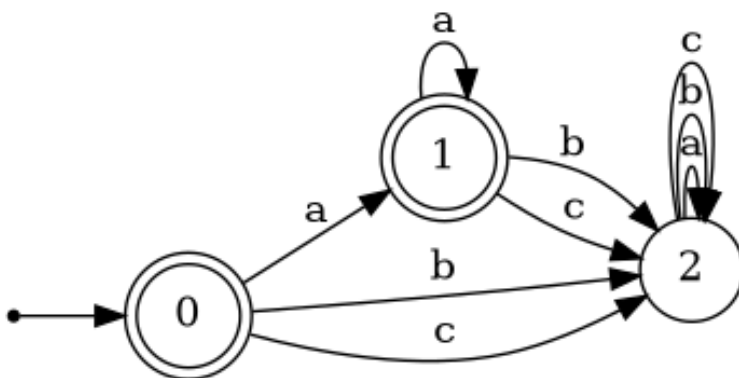
(1, 'b'): [2]

(1, 'c'): [2]

(2, 'a'): [2]

(2, 'b'): [2]

(2, 'c'): [2]

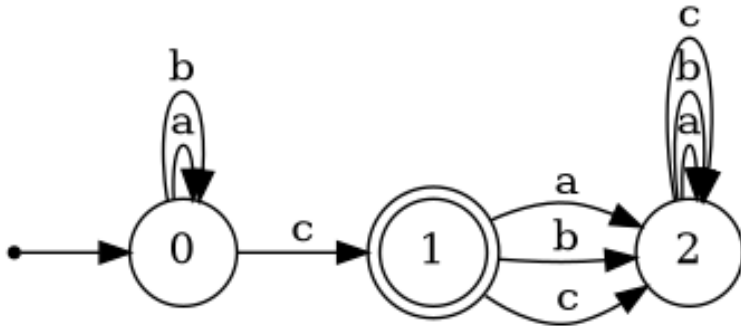


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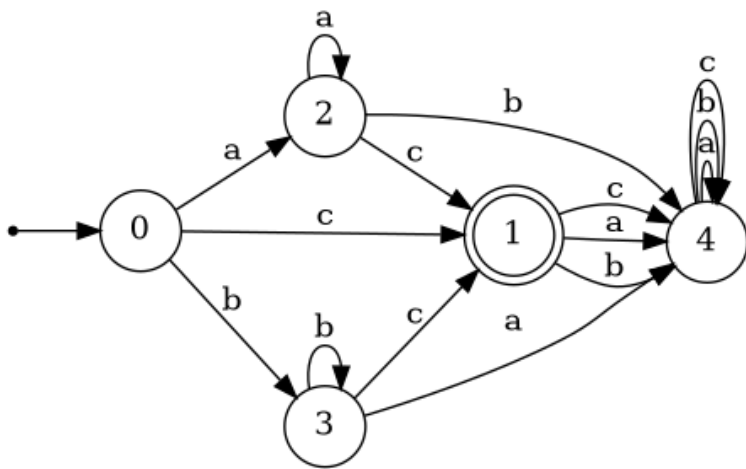
6. Test d'Egalite

Comparaison de $A = (a+b)^*.c$ et $B = a^*.c + b^*.c$

Automate A (minimisé) :



Automate B (minimisé) :



RESULTAT: NON EGAL