

# Rapport de Projet: Automates

## 1. Test Concaténation (a.b)

Automate résultant de a.b :

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

Nombre d'états 4

Etats finals [3]

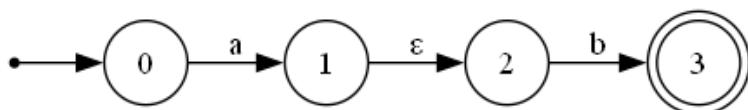
Transitions:

(0, 'a'): [1]

(2, 'b'): [3]

(1, 'E'): [2]

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## 2. Test Union (a+b)

Automate résultant de a+b :

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

Nombre d'états 6

Etats finals [5]

Transitions:

(1, 'a'): [2]

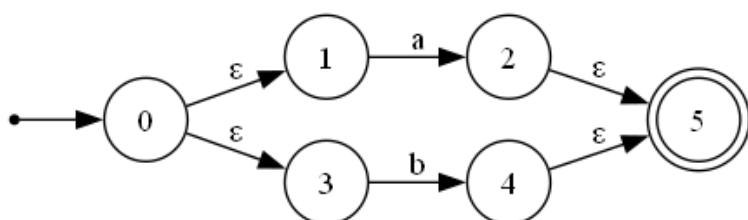
(3, 'b'): [4]

(0, 'E'): [1, 3]

(2, 'E'): [5]

(4, 'E'): [5]

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## 3. Test Etoile (a\*)

Automate résultant de a\* :

Automate  $((a))^*$

Nombre d'états 4

Etats finals [3]

Transitions:

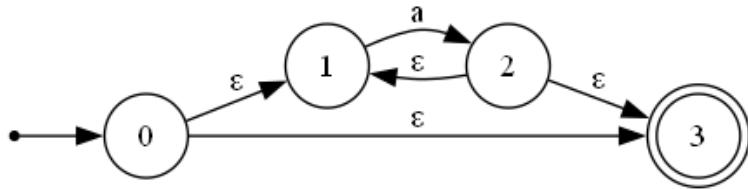
(1, 'a'): [2]

(0, 'E'): [1, 3]

(2, 'E'): [1, 3]

\*\*\*\*\*

# Rapport de Projet: Automates



## 4. Suppression Epsilon sur a.b

Automate sans epsilon :

Automate ((a).(b))

Nombre d'états 4

Etats finals [3]

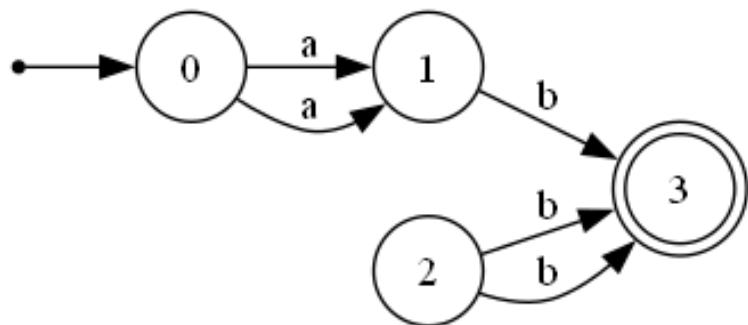
Transitions:

(0, 'a'): [1, 1]

(2, 'b'): [3, 3]

(1, 'b'): [3]

\*\*\*\*\*

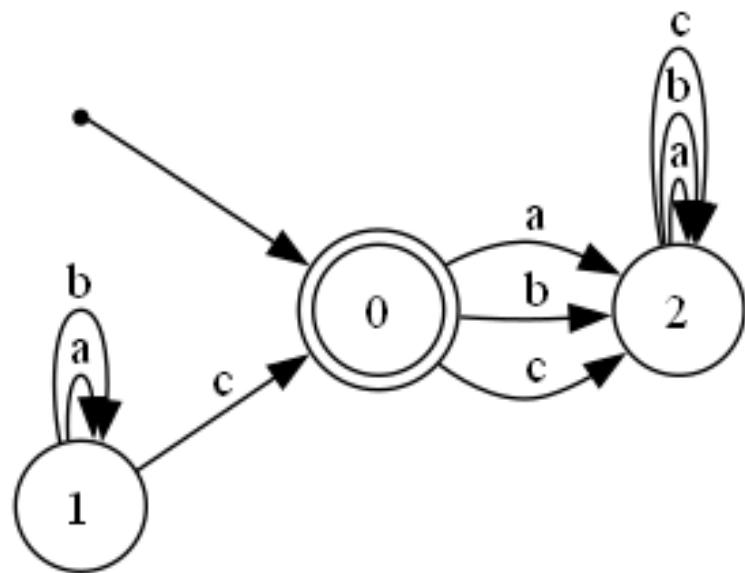


# Rapport de Projet: Automates

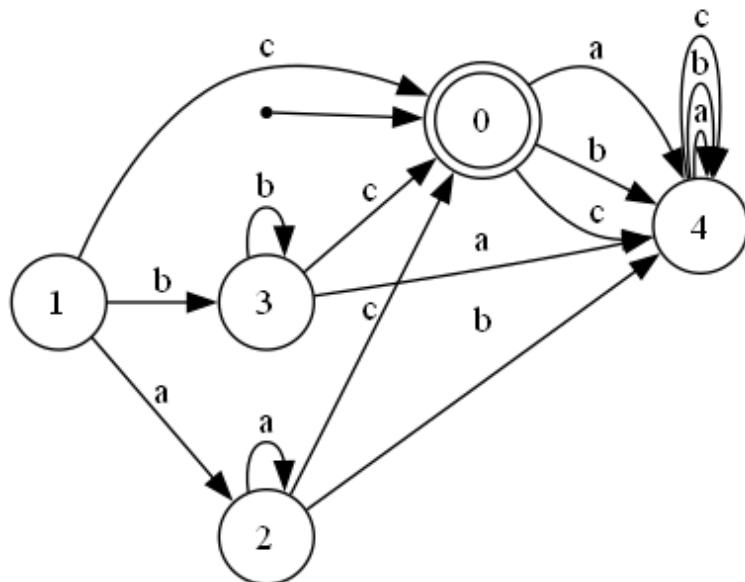
## 5. Test d'Egalité

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

Automate A (minimisé) :



Automate B (minimisé) :



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**RESULTAT: EGAL**