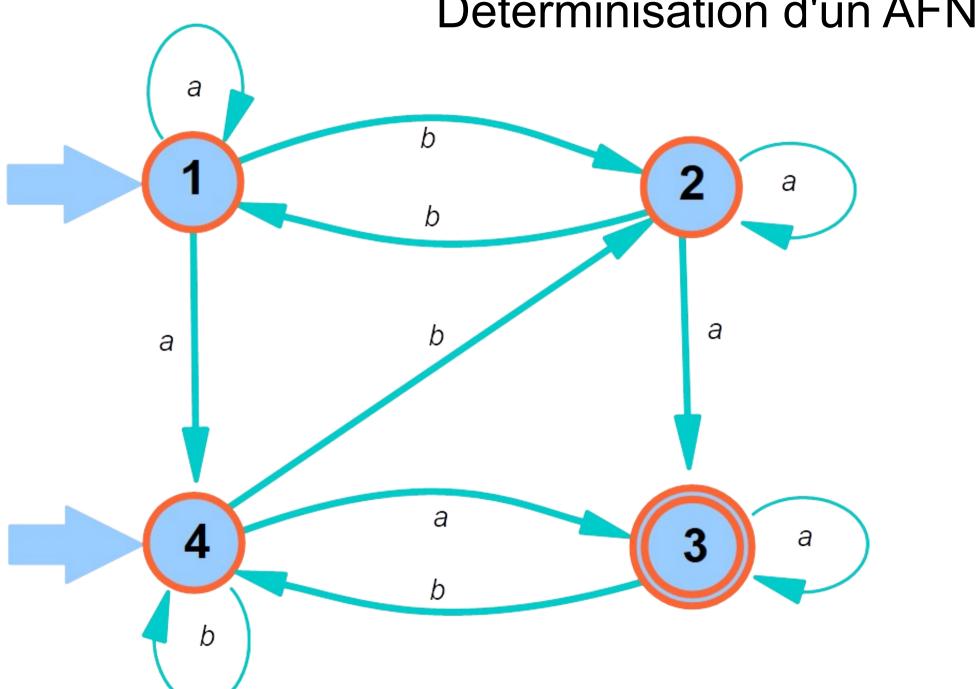
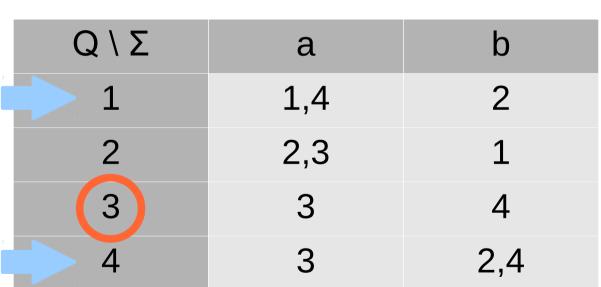
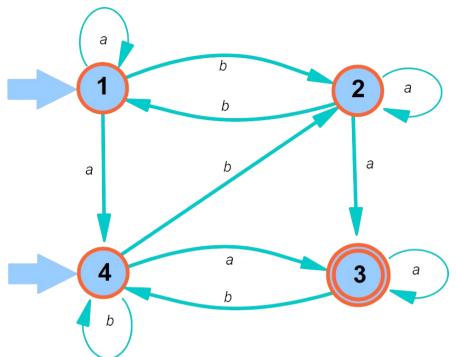
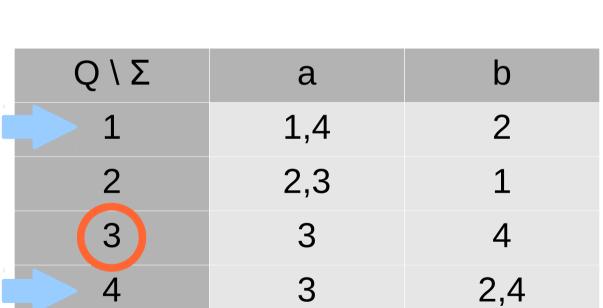
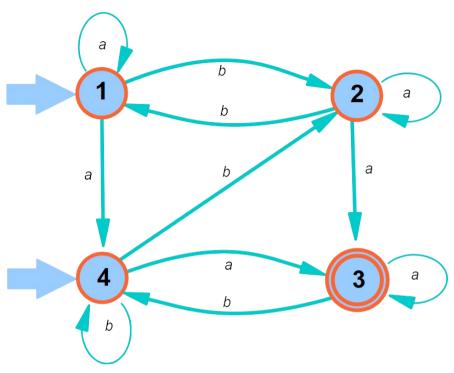
### Déterminisation d'un AFN



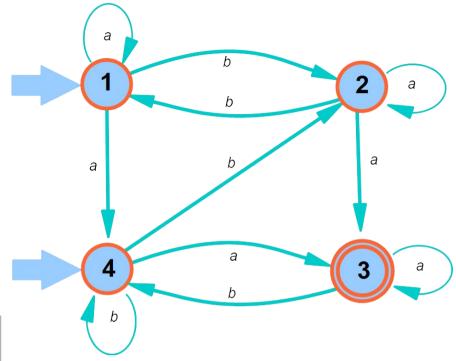






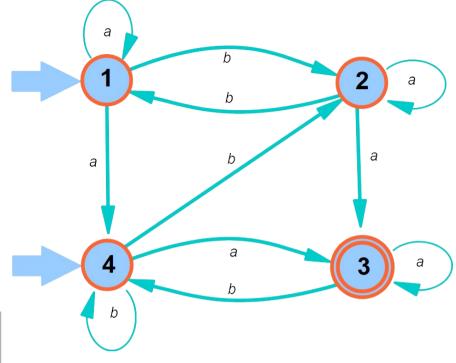


4 sources de non déterminisme



Q\Σ	a	b
1	1,4	2
2	2,3	ĺ
3	3	4
4	3	2,4

4 sources de non déterminisme : 3 lectures multiples

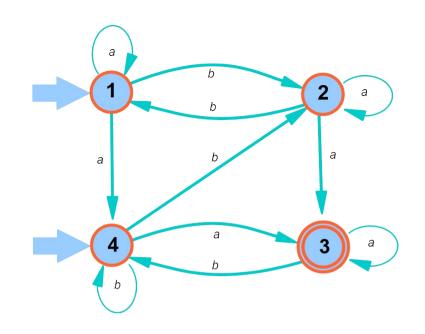


Q\Σ	a	b
1	1,4	2
2	2,3	i
3	3	4
4	3	2,4

4 sources de non déterminisme : 3 lectures multiples Et 2 états initiaux

Q \ Σ I={1,4}	a	b
I={1,4}		

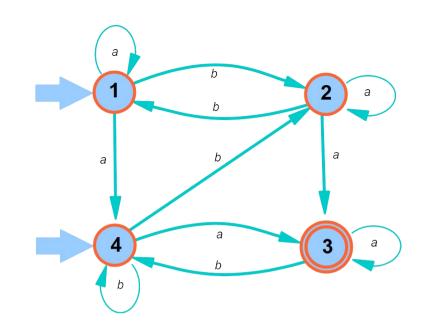
a) Calcul de l'état initial



Q\Σ	a	b
1	1,4	2
2	2,3	1
3	3	4
4	3	2,4

Q\Σ	a	b
I={1,4}	II	Ш
II={1,3,4}		
III={2,4}		

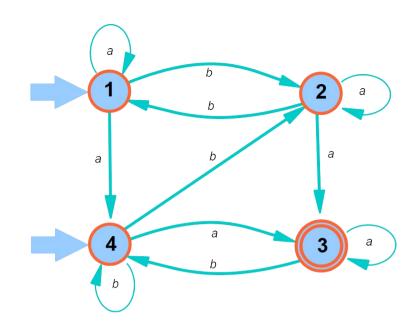
b) calcul des transitions issues de I, Nouveaux états II et III



Q\Σ	a	b
1	1,4	2
2	2,3	1
3	3	4
4	3	2,4

Q\Σ	a	b
I={1,4}	II	III
II={1,3,4}	II	Ш
III={2,4}		

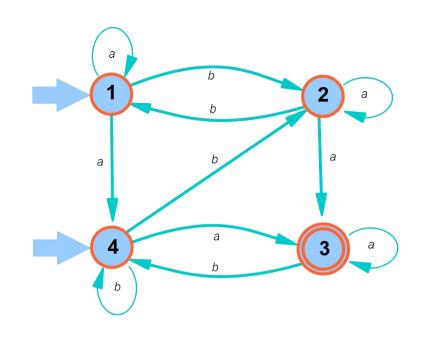
b) calcul des transitions issues de II,



Q\Σ	a	b
1	1,4	2
2	2,3	1
3	3	4
4	3	2,4

Q\Σ	a	b
I={1,4}	II	III
II={1,3,4}	li li	Ш
$III = \{2,4\}$	IV	V
IV={2,3}		
V={1,2,4}		

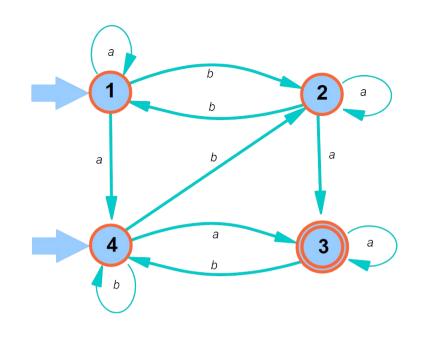
b) calcul des transitions issues de III, Nouveaux états IV et V



Q\Σ	a	b
1	1,4	2
2	2,3	1
3	3	4
4	3	2,4

Q\Σ	a	b
I={1,4}	ll	III
II={1,3,4}	li li	Ш
$III = \{2,4\}$	IV	V
IV={2,3}	IV	I
V={1,2,4}		

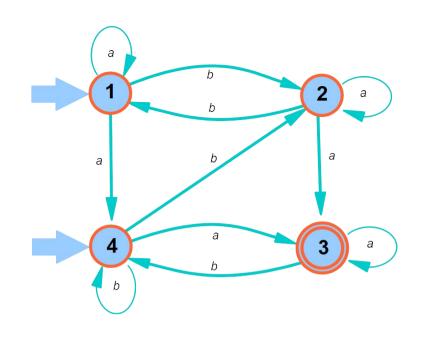
b) calcul des transitions issues de IV,



Q\Σ	a	b
1	1,4	2
2	2,3	1
3	3	4
4	3	2,4

Q\Σ	a	b
I={1,4}	II	III
II={1,3,4}	II	III
III={2,4}	IV	V
IV={2,3}	IV	I
V={1,2,4}	VI	V
VI={1,2,3,4}	VI	V

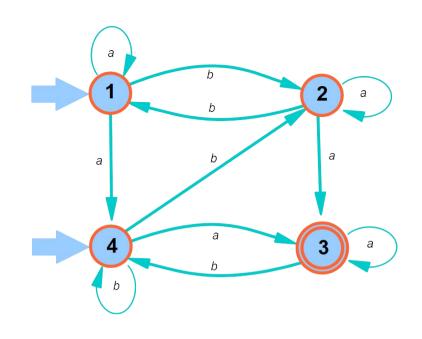
b) calcul des transitions issues de V, Nouvel états VI



Q\Σ	a	b
1	1,4	2
2	2,3	1
3	3	4
4	3	2,4

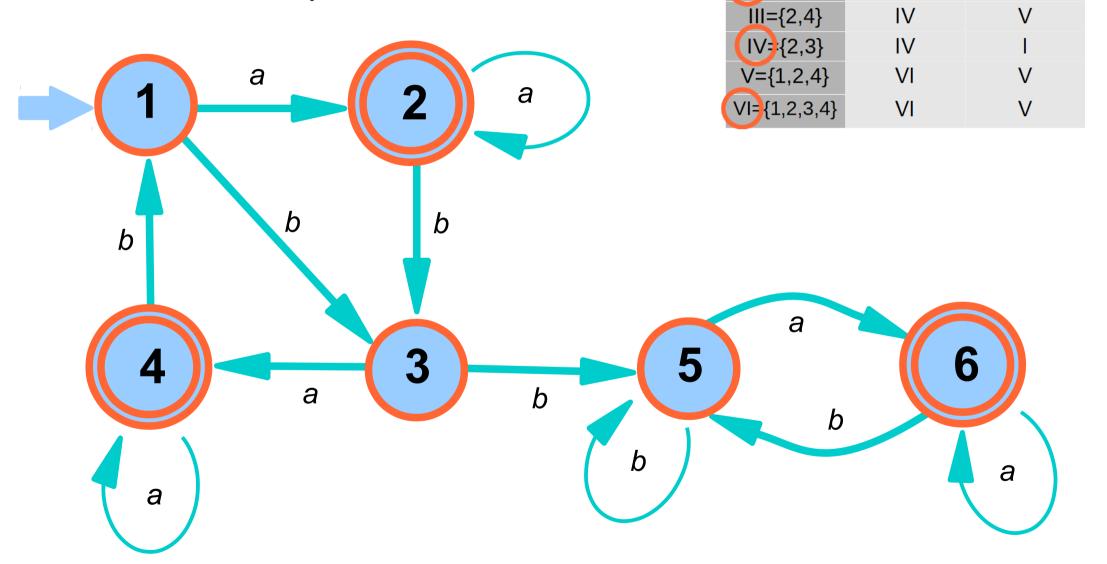
Q\Σ	a	b
I={1,4}	II	III
II={1,3,4}	II	Ш
III={2,4}	IV	V
IV={2,3}	IV	ı
V={1,2,4}	VI	V
VI={1,2,3,4}	VI	V

c) tous les états contenant 3 sont acceptants



Q\Σ	a	b
1	1,4	2
2	2,3	1
3	3	4
4	3	2,4

3) d'où finalement l'automate déterministe équivalent à  $\mathcal{A}$ :



Q\Σ

I={1,4}

 $II = \{1, 3, 4\}$ 

a

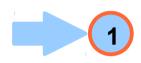
Ш

Ш

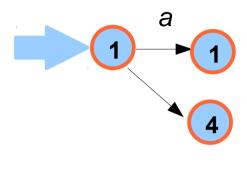
b

Ш

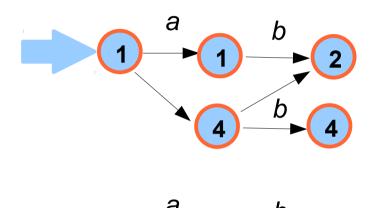
Ш

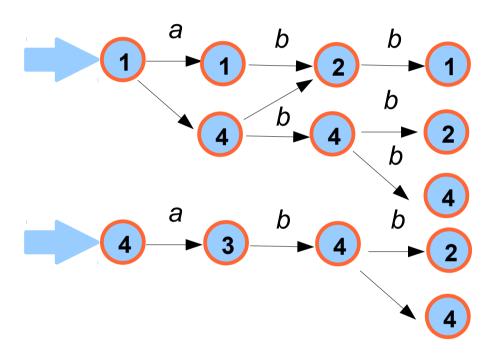


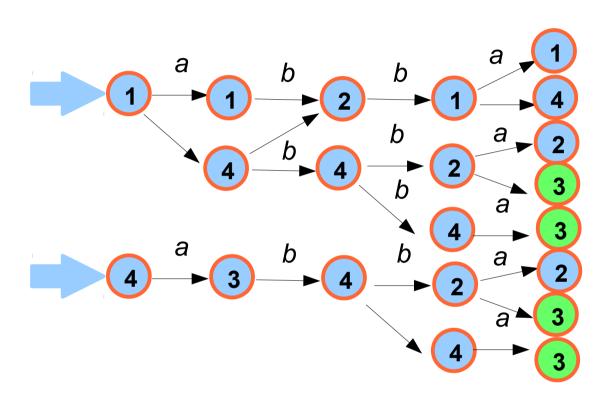




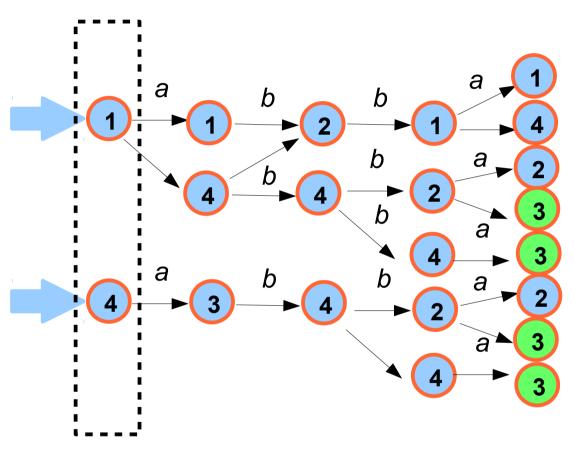








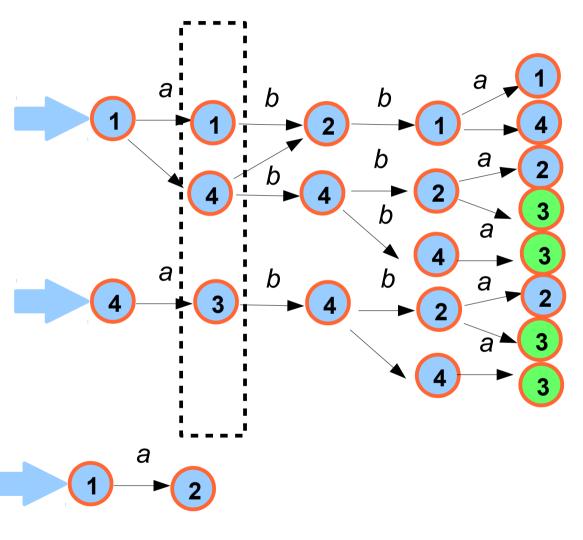
4 lectures acceptantes dans la forêt de lecture, Le mot abba est accepté



4 lectures acceptantes dans la forêt de lecture, Le mot abba est accepté

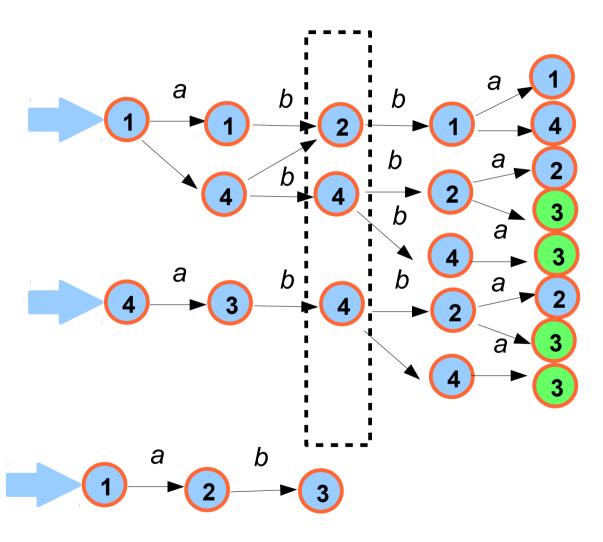


 $I=\{1,4\}$ ;



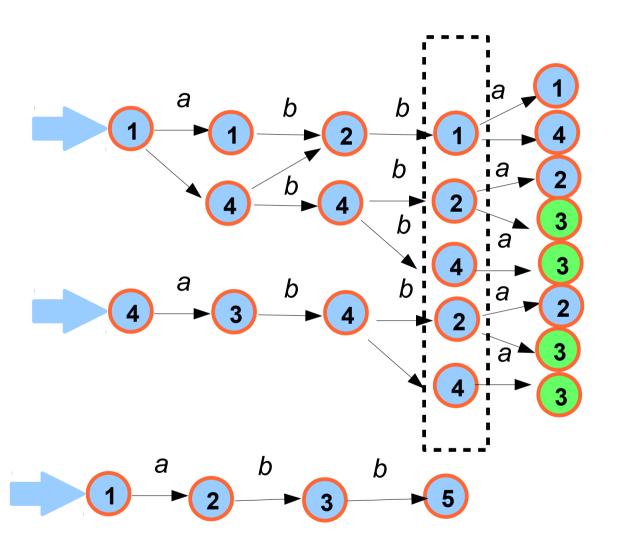
4 lectures acceptantes dans la forêt de lecture, Le mot abba est accepté

 $I=\{1,4\}$ ;  $II=\{1,3,4\}$ ;



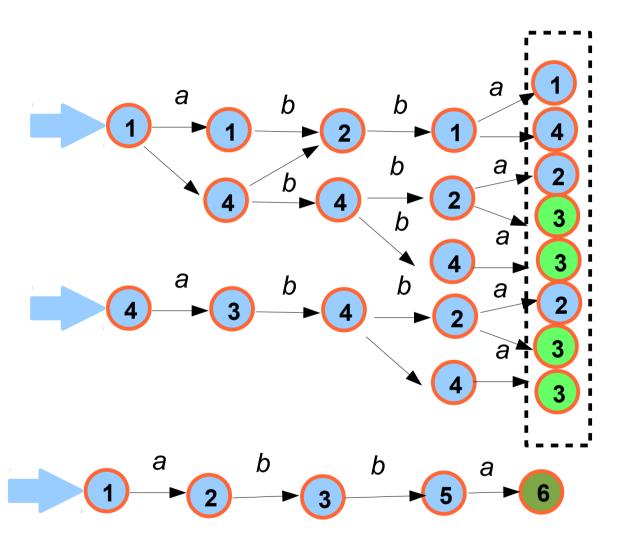
4 lectures acceptantes dans la forêt de lecture, Le mot abba est accepté

 $I=\{1,4\}$ ;  $II=\{1,3,4\}$ ;  $III=\{2,4\}$ ;



4 lectures acceptantes dans la forêt de lecture, Le mot abba est accepté

 $I=\{1,4\}$ ;  $II=\{1,3,4\}$ ;  $III=\{2,4\}$ ;  $V=\{1,2,4\}$ ;



4 lectures acceptantes dans la forêt de lecture, Le mot abba est accepté

 $I=\{1,4\}$ ;  $II=\{1,3,4\}$ ;  $III=\{2,4\}$ ;  $V=\{1,2,4\}$ ;  $VI=\{1,2,3,4\}$