



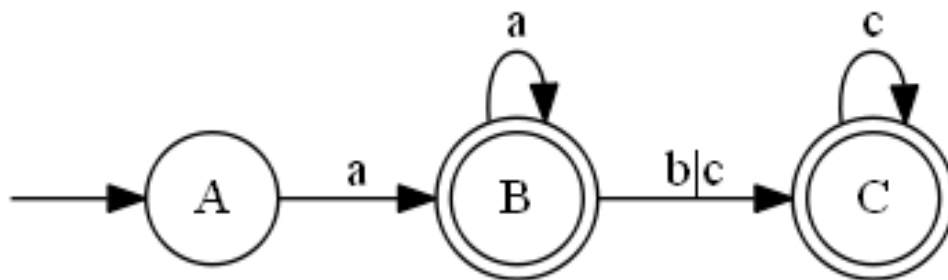
2. Follow

Follow	
1-a	1,2,3,4
2-b	3,4
3-c	3,4
4-#	_____

3. Tabla de transición

	a	b	c	FDC
A = {1}	B = {1,2,3,4}	_____	_____	_____
B = {1,2,3,4}	B = {1,2,3,4}	C = {3,4}	C = {3,4}	Aceptación
C = {3,4}	_____	_____	C = {3,4}	Aceptación

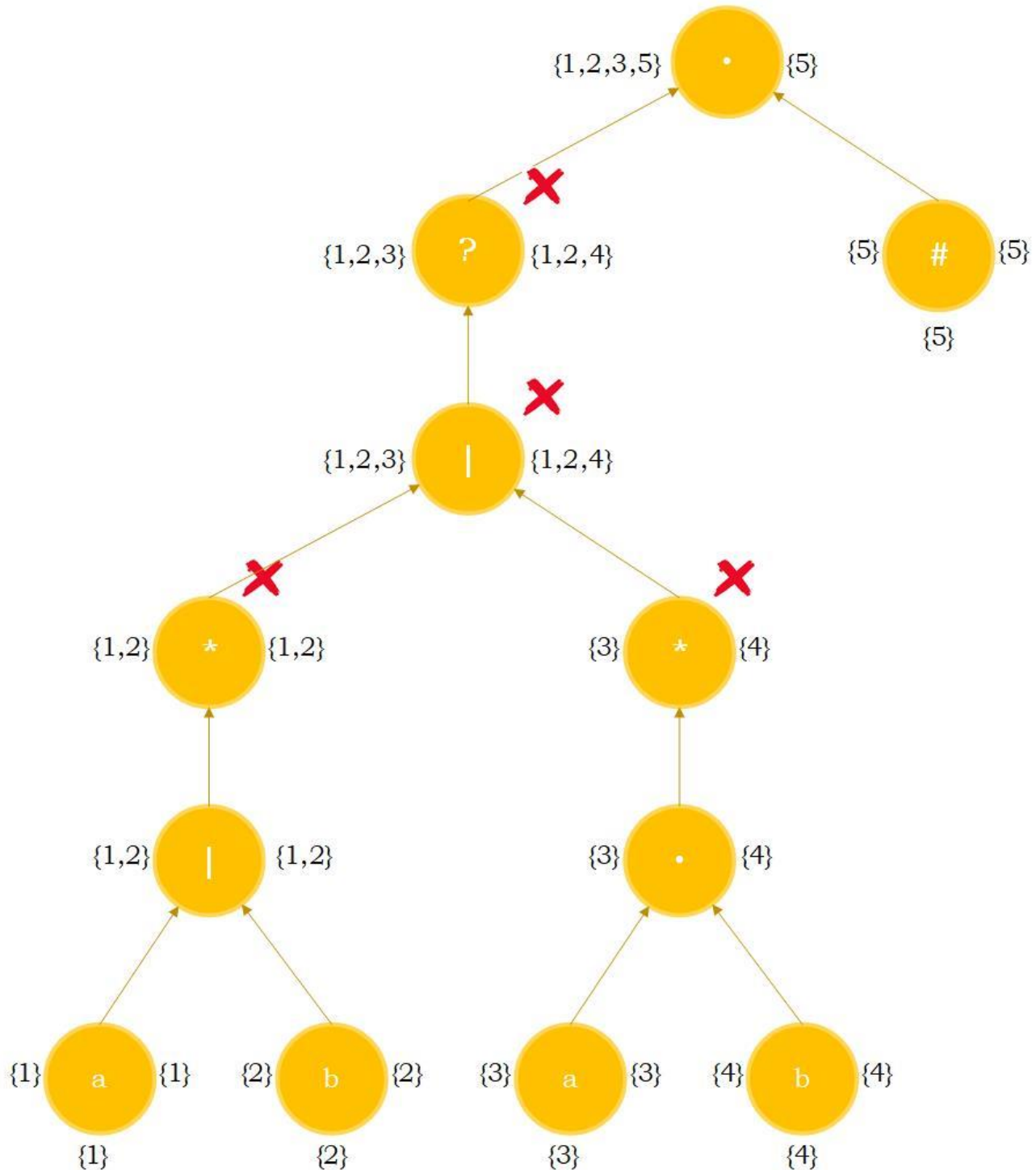
4. Autómata finito determinístico





✓ $((a|b)^*(ab)^*)?$

1. Árbol binomial





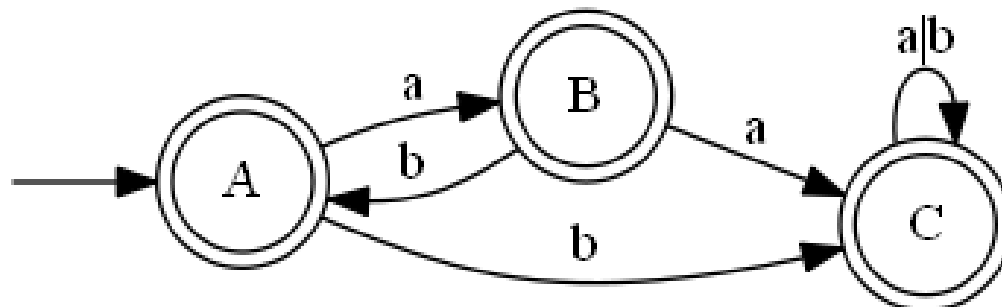
2. Follow

Follow	
1-a	1,2,5
2-b	1,2,5
3-a	4
4-b	3,5
5-#	-----

3. Tabla de transición

	a	b	FDC
A = {1,2,3,5}	B = {1,2,4,5}	C = {1,2,5}	Aceptación
B = {1,2,4,5}	C = {1,2,5}	A = {1,2,3,5}	Aceptación
C = {1,2,5}	C = {1,2,5}	C = {1,2,5}	Aceptación

4. Autómata finito determinístico



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- The graph consists of the following nodes and edges:
- Node 1 (bottom left): contains 'a', with $\{1\}$ on the left and $\{1\}$ on the right.
 - Node 2 (bottom right): contains 'b', with $\{2\}$ on the left and $\{2\}$ on the right.
 - Node 3 (middle left): contains '|', with $\{1,2\}$ on the left and $\{1,2\}$ on the right.
 - Node 4 (middle right): contains '*', with $\{1,2\}$ on the left and $\{1,2\}$ on the right.
 - Node 5 (top left): contains '.', with $\{1,2,3\}$ on the left and $\{3\}$ on the right.
 - Node 6 (top middle): contains 'b', with $\{3\}$ on the left and $\{3\}$ on the right.
 - Node 7 (top right): contains '?', with $\{4\}$ on the left and $\{4\}$ on the right.
 - Node 8 (top right): contains '#', with $\{5\}$ on the left and $\{5\}$ on the right.
 - Node 9 (top right): contains '.', with $\{1,2,3\}$ on the left and $\{3,4\}$ on the right.
 - Node 10 (top right): contains '.', with $\{1,2,3\}$ on the left and $\{5\}$ on the right.
- Edges (arrows):
- Node 1 → Node 3
 - Node 2 → Node 3
 - Node 3 → Node 4
 - Node 4 → Node 5
 - Node 5 → Node 6
 - Node 6 → Node 7
 - Node 7 → Node 9
 - Node 9 → Node 10
 - Node 8 → Node 10
- Red 'X' marks are placed on the edges from Node 4 to Node 5 and from Node 7 to Node 9.



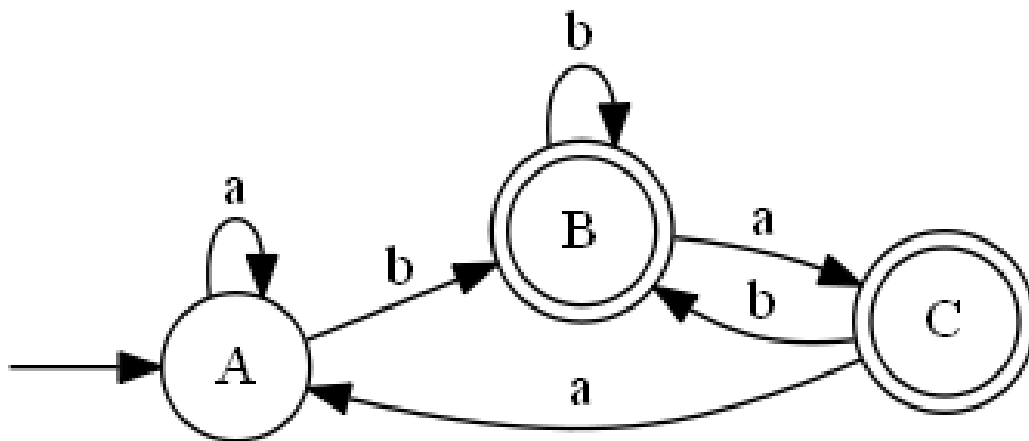
2. Follow

Follow	
1-a	1,2,3
2-b	1,2,3
3-b	4,5
4-a	5
5-#	_____

3. Tabla de transición

	a	b	FDC
A = {1,2,3}	A = {1,2,3}	B = {1,2,3,4,5}	_____
B = {1,2,3,4,5}	C = {1,2,3,5}	B = {1,2,3,4,5}	Aceptación
C = {1,2,3,5}	A = {1,2,3}	B = {1,2,3,4,5}	Aceptación

4. Autómata finito determinístico



1. Árbol binomial



6-c	7
7-#	_____

3. Tabla de transición

	a	b	c	FDC
A = {1,2}	B = {1,3,4,5}	C = {2,3,4,5}	_____	_____
B = {1,3,4,5}	D = {1,3,4,5,6,7}	E = {5,6,7}	F = {3,4,5}	_____
C = {2,3,4,5}	G = {4,6,7}	H = {2,3,4,5,6,7}	F = {3,4,5}	_____
D = {1,3,4,5,6,7}	D = {1,3,4,5,6,7}	E = {5,6,7}	I = {3,4,5,7}	Aceptación
E = {5,6,7}	_____	E = {5,6,7}	J = {7}	Aceptación
F = {3,4,5}	G = {4,6,7}	E = {5,6,7}	F = {3,4,5}	_____
G = {4,6,7}	G = {4,6,7}	_____	J = {7}	Aceptación
H = {2,3,4,5,6,7}	G = {4,6,7}	H = {2,3,4,5,6,7}	I = {3,4,5,7}	Aceptación
I = {3,4,5,7}	G = {4,6,7}	E = {5,6,7}	I = {3,4,5,7}	Aceptación
J = {7}	_____	_____	_____	Aceptación

4. Autómata finito determinístico

