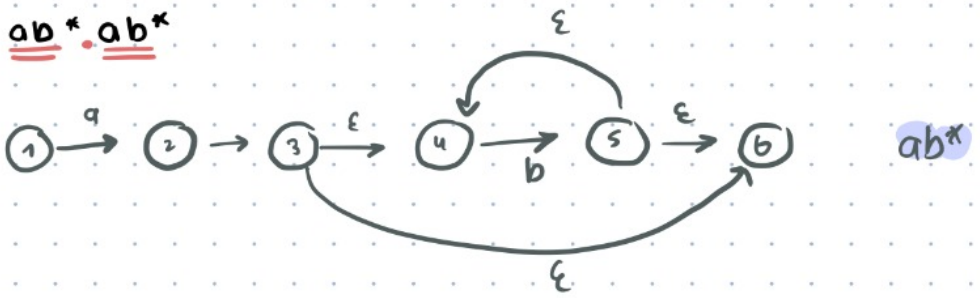
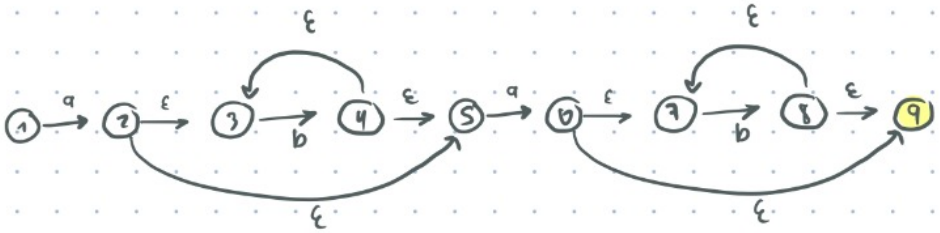
Pre Laboratorio A

1. ab*ab*

→ ab*.ab*



→ concatenamos dos veces ab*

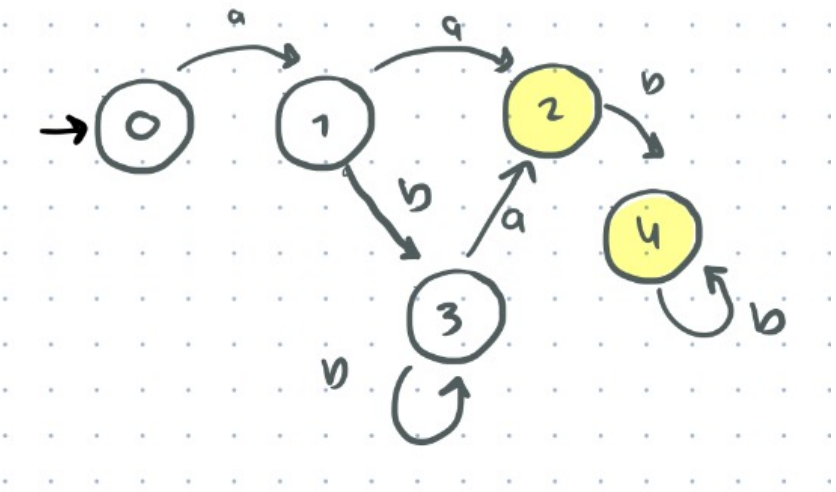


Estado	a	b	ε
1	2	∅	1
2	∅	∅	2, 3, 5
3	∅	4	3
4	∅	∅	4, 3, 5
5	6		5
6	∅	∅	6, 7, 9
7	∅	8	7
8	∅	∅	8, 7, 9
9	∅	∅	9

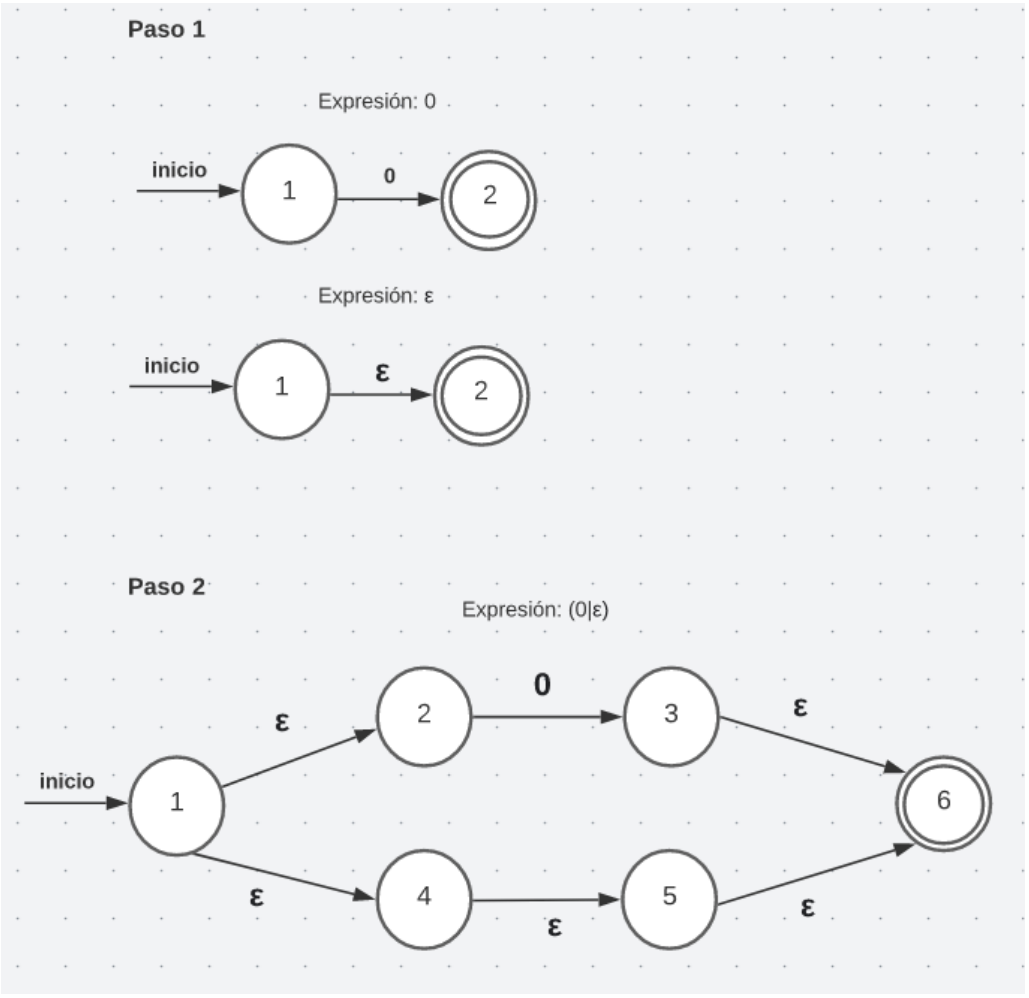
AFD

Estado	a	b
{1} = 0	{2,3,5} = 1	∅
{2,3,5} = 1	{6,7,9} = 2	{3,4,5} = 3
{6,7,9} = 2	∅	{7,8,9} = 4
{3,4,5} = 3	{6,7,9} = 2	{3,4,5} = 3
{7,8,9} = 4	∅	{7,8,9} = 4

{1}(a) = {2,3,5} = 1
{2,3,5}(a) = {6,7,9} = 2
(b) = {3,4,5} = 3

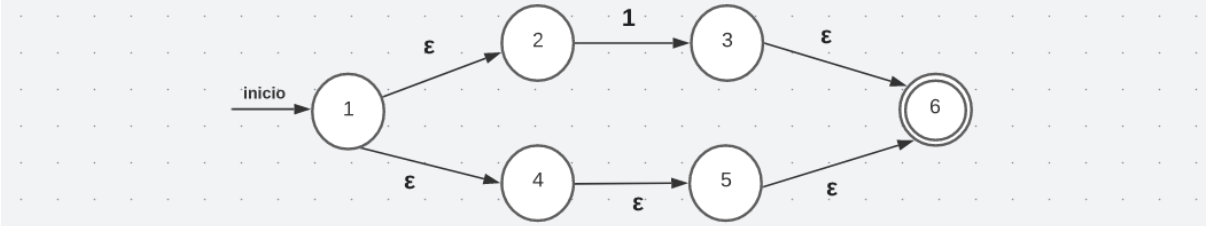

a
a
b
b
a
b
b
0
1
2
3
4

2. 0?(1?)?0*


Paso 1
Expresión: 0
inicio
1
0
2
Expresión: ε
inicio
1
ε
2
Paso 2
Expresión: (0|ε)
inicio
1
ε
2
0
3
ε
6
ε
4
ε
5
ε

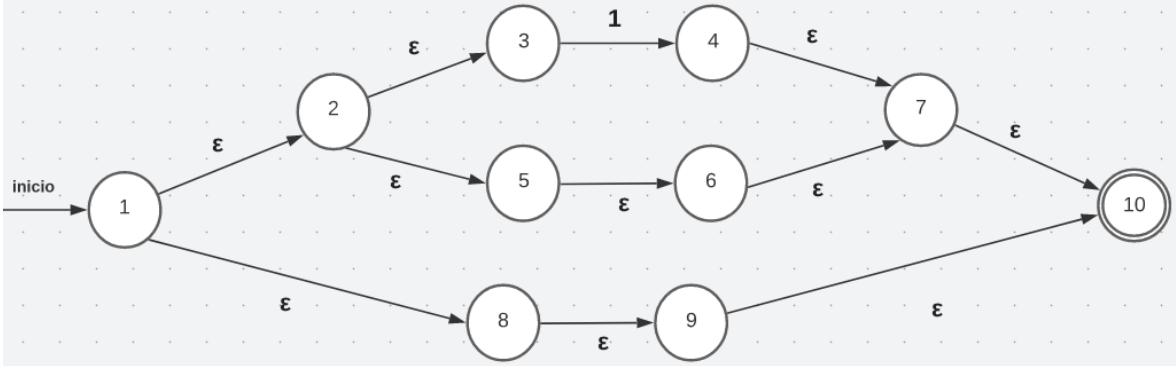
Paso 3

Expresión: (1|ε)



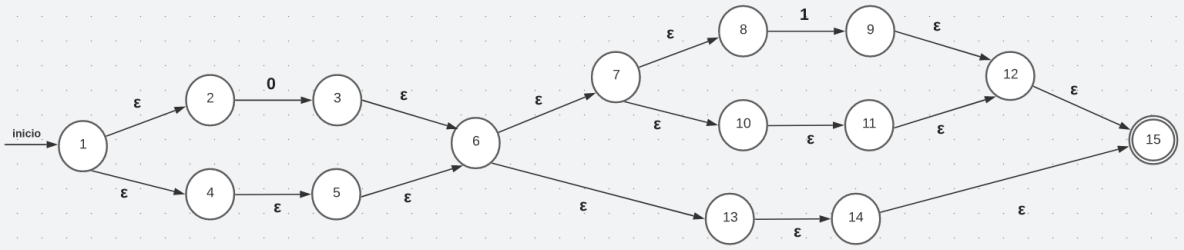
Paso 4

Expresión: ((1|ε)| ε)



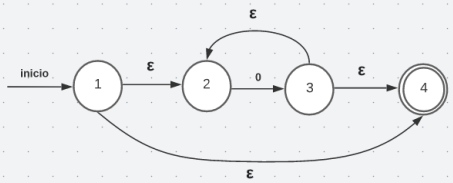
Paso 5

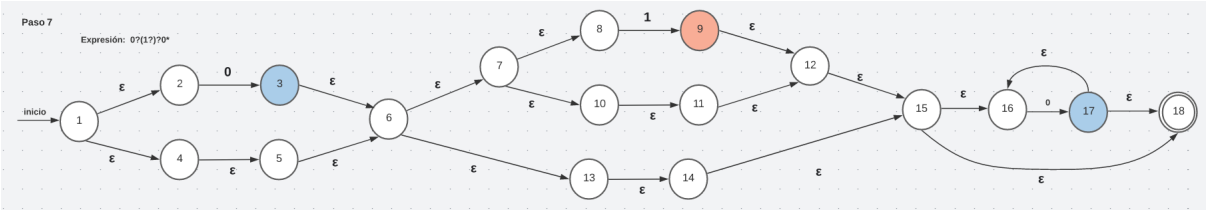
Expresión: (0|ε)((1|ε)| ε)



Paso 6

Expresión: 0*





Estado del AFN	Transición con 0	Transición con 1	Transición con ε
1	--	--	1, 2, 4
2	3	--	2
3	--	--	3, 6
4	--	--	4, 5
5	--	--	5, 6
6	--	--	6, 7, 13
7	--	--	7, 8, 10
8	--	9	8
9	--	--	9, 12
10	--	--	10, 11
11	--	--	11, 12
12	--	--	12, 15
13	--	--	13, 14
14	--	--	14, 15
15	--	--	15, 16, 18
16	17	--	16
17	--	--	16, 17, 18
18	--	--	18

Conjunto de estados del AFN	Estado del AFD	Transición con 0	Transición con 1
{1, 2, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 18}	A	B	C
{3, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18}	B	D	C
{9, 12, 15, 16, 18}	C	D	---
{16, 17, 18}	D	D	---