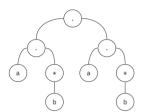
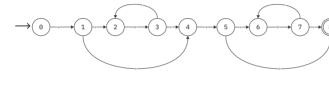
# Expresión: ab\*ab\*



Autómata finito no determinista



Autómata finito determinista

Simbolos: 
$$\{a, b\}$$
  
e-closure( $\{0\}$ ) =  $\{0\}$  = A  
move(A, a) =  $\{1\}$   
e-closure( $\{1\}$ ) =  $\{1,2,4\}$  = B  
move(A, b) =  $\{\}$  = E  
move(B, a) =  $\{5\}$ 

 $move(B, b) = {3}$ 

 $move(D, a) = \{5\}$ 

 $move(D, b) = {3}$ 

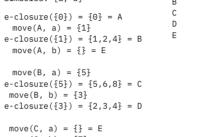
 $move(E, a) = \{\} = E$  $move(E, b) = \{\} = E$ 

 $move(C, a) = \{\} = E$  $move(C, b) = \{7\}$ 

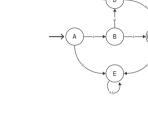
e-closure( $\{7\}$ ) =  $\{6,7,8\}$  = C

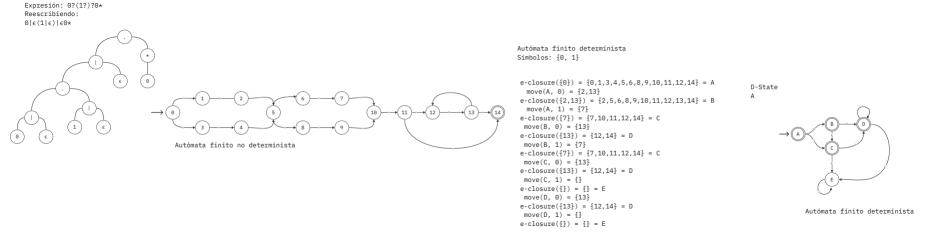
e-closure( $\{5\}$ ) =  $\{5,6,8\}$  = C

e-closure({3}) = {2,3,4} = D



D-State

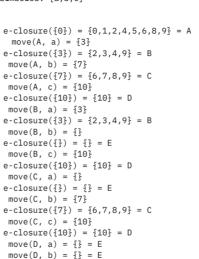


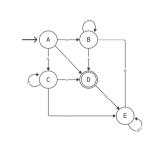


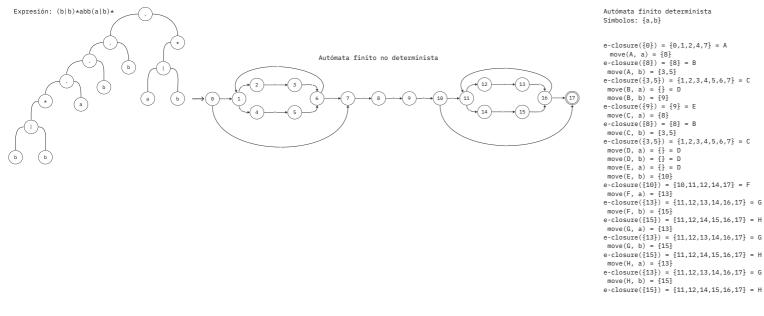
Autómata finito no determinista

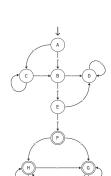
# Autómata finito determinista Símbolos: {a,b,c}

move(D, c) =  $\{\}\}$  = E move(E, a) =  $\{\}\}$  = E move(E, b) =  $\{\}\}$  = E move(E, c) =  $\{\}\}$  = E

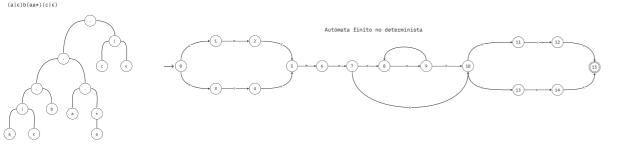






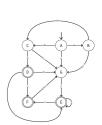


Expresión:  $(a|\epsilon)b(a+)c$ ? Reescribiendo:

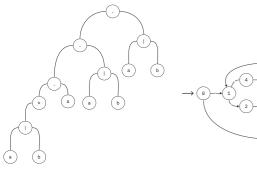


#### Autómata finito determinista Símbolos: {a,b, c}

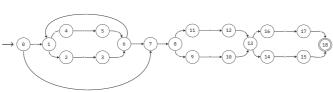
```
e-closure({0}) = {0,1,3,4,5} = A
 move(A, a) = \{2\}
e-closure({2}) = {2, 5} = B
 move(A, b) = \{6\}
e-closure({6}) = {6} = C
 move(A, c) = \{\} = G
 move(B, a) = \{\} = G
 move(B, b) = \{6\}
e-closure({6}) = C
 move(B, c) = \{\} = G
 move(C,a) = \{7\}
e-closure({7}) = {7,8,10,11,13,14,15} = D
 move(C, b) = \{\} = G
 move(C, c) = \{\} = G
 move(D, a) = \{9\}
e-closure({9}) = {8, 9, 10, 11, 13, 14, 15} = E
 move(D, b) = \{\} = G
 move(D, c) = \{12\}
e-closure({12}) = {12, 15} = F
 move(E, a) = {9}
e-closure({9}) = {8, 9, 10, 11, 13, 14, 15} = E
 move(E, b) = \{\} = G
 move(E, c) = \{12\}
e-closure({12}) = {12, 15} = F
 move(F, a) = \{\} = G
 move(F, b) = f = G
 move(F, c) = \{\} = G
```



# Expresión: (a|b)\*a(a|b)(a|b)



## Autómata finito no determinista



### Autómata finito determinista

## Símbolos: {a, b}

