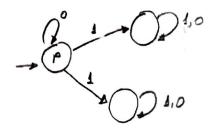


→0 is the initial state

(is the final state

H one of these
3 things happons

NFA



N FA₂

NFAn

NFAI: more than one trousings

NFA.

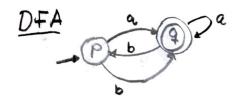
NFA2: no transition defined

pomp with o

NFA3: > transition

7

$$Z = \{a,b\}$$
 $Q = \{P,q\}$ $q_0 = P$

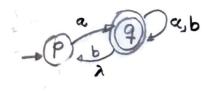


$$\begin{cases}
(P, \alpha) = 9 \\
f(P, b) = 9
\end{cases}$$

$$\begin{cases}
(P, \alpha) = 9 \\
f(P, \alpha) = 9
\end{cases}$$

$$\begin{cases}
(P, \alpha) = 9 \\
f(P, \alpha) = 9
\end{cases}$$

NFA



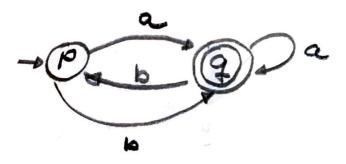
{(4×)={P} {(4×)={P}} {(4×)={P}}

Transition

P(Q)={ {p}, {q}, {p,q}, Ø}

0

DFA A



t = aababa

(P, aababa) 4 INITIAL CONFIGURATION

(P, aababa) → (q, ababa) → (q, baba) → (P, aba) →

→ (2, ba) - (P,a) - (2, 2)

FINAL STATE

The string t has been read

movement

1(9,6)=P

 $(P,t) \cdots \rightarrow (q,\lambda)$

several movements

tel tel(A) X=ab X&L(A)

$$f'(P,baa) = f'(f(P,b),aa) = f'(v,aa) =$$

$$= f'(f(v,a),a) = f'(v,a) = f'(f(v,a),\lambda) =$$

$$= f'(v,\lambda) = r \implies f'(P,baa) = r$$

DFA1 eliminate Non-reacheable state DFA2

13 not connected 5 is not reachoable from P q is not reacheable from p

L(DFAI) = L(DFA2)

@ Reflexive PEP

2 Symetrical PEq => 9EP 3 Transhie PEQ19Er = PEn a,b aib

$$Q = \{A, B, C\}$$

 $F = \{A\}$
 $C_A = \{A\} \leftarrow E_0$
 $C_2 = \{B, C\} \leftarrow E_0$

VP, q ∈Q-F PEOQ => BEOC

$$C_1 = \{A\} + E_1$$

 $C_2 = \{B, C\} + E_1$

$$f(8,0) = B \in C_2$$

$$f(C,0) = C \in C_2$$

$$f(B,1) = C \in C_1$$

$$f(B,0) = B \in C_2$$

$$f(B,0) = B \in C_2$$

$$f(B,0) = C \in C_2$$

$$f(B,1) = C \in C_2$$

$$f(B,1) = C \in C_2$$

$$f(C,1) = C \in C_2$$

BEIC A BEZC = BEC

$$A = \{A,B,C\}$$

$$E = \{A,C\}$$

$$C_1 = \{A, C\}$$

$$C_2 = \{B\} \leftarrow E_0$$

$$f(A,0) = B \in C_2$$

 $f(A,1) = B \in C_2$
 $f(C,0) = C \in C_1$
 $f(C,1) = C \in C_1$