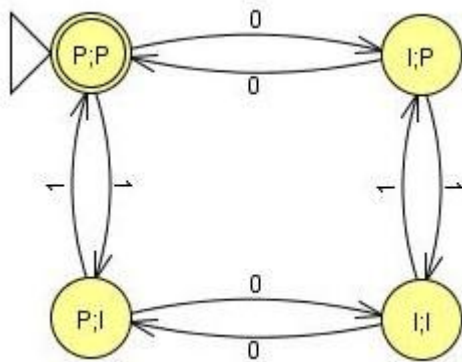


\*D =  $\delta$  (delta chapéu) e d = (delta) para não ter que adicionar nova equação a cada linha (e também por conta da falta do “chapéu”

A)



$$D("P;P", 110101) = d(D("P;P", 11010), 1) = d("P;I", 1) = "P;P"$$

$$D("P;P", 11010) = d(D("P;P", 1101), 0) = d("I;I", 0) = "P;I"$$

$$D("P;P", 1101) = d(D("P;P", 110), 1) = d("I;P", 1) = "I;I"$$

$$D("P;P", 110) = d(D("P;P", 11), 0) = d("P;P", 0) = "I;P"$$

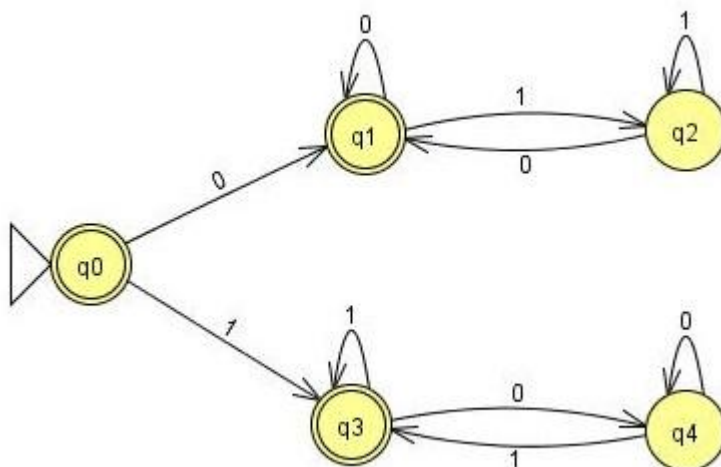
$$D("P;P", 11) = d(D("P;P", 1), 1) = d("P;I", 1) = "P;P"$$

$$D("P;P", 1) = d(D("P;P", \epsilon), 1) = d("P;P", 1) = "P;I"$$

$$D("P;P", \epsilon) = "P;P"$$

String aceita pelo DFA

B)



$$D(q0, 10110) = d(D(q0, 1011), 0) = d(q3, 0) = q4$$

$$D(q0, 1011) = d(D(q0, 101), 1) = d(q3, 1) = q3$$

$$D(q0, 101) = d(D(q0, 10), 1) = d(q4, 1) = q3$$

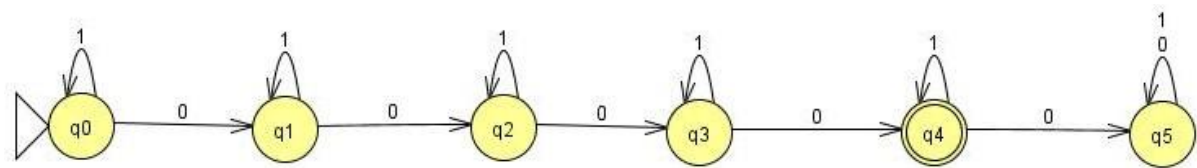
$$D(q0, 10) = d(D(q0, 1), 0) = d(q3, 0) = q4$$

$$D(q0, 1) = d(D(q0, \epsilon), 1) = d(q0, 1) = q3$$

$$D(q0, \epsilon) = q0$$

String rejeitada pelo DFA

C)



$$D(q_0, 010000) = d(D(q_0, 01000), 0) = d(q_4, 0) = q_5$$

$$D(q_0, 01000) = d(D(q_0, 0100), 0) = d(q_3, 0) = q_4$$

$$D(q_0, 0100) = d(D(q_0, 010), 0) = d(q_2, 0) = q_3$$

$$D(q_0, 010) = d(D(q_0, 01), 0) = d(q_1, 0) = q_2$$

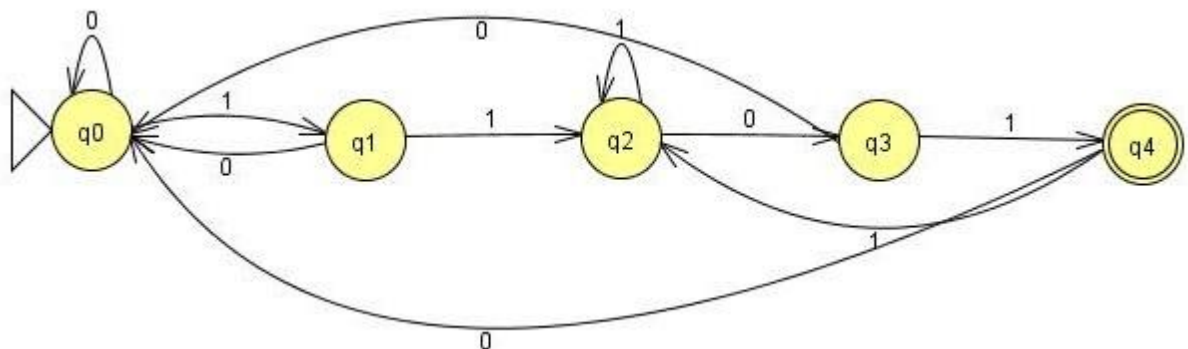
$$D(q_0, 01) = d(D(q_0, 0), 1) = d(q_1, 1) = q_1$$

$$D(q_0, 0) = d(D(q_0, \epsilon), 0) = d(q_0, 0) = q_1$$

$$D(q_0, \epsilon) = q_0$$

String rejeitada pelo DFA

D)



$$D(q_0, 11010) = d(D(q_0, 1101), 0) = d(q_4, 0) = q_0$$

$$D(q_0, 1101) = d(D(q_0, 110), 1) = d(q_3, 1) = q_4$$

$$D(q_0, 110) = d(D(q_0, 11), 0) = d(q_2, 0) = q_3$$

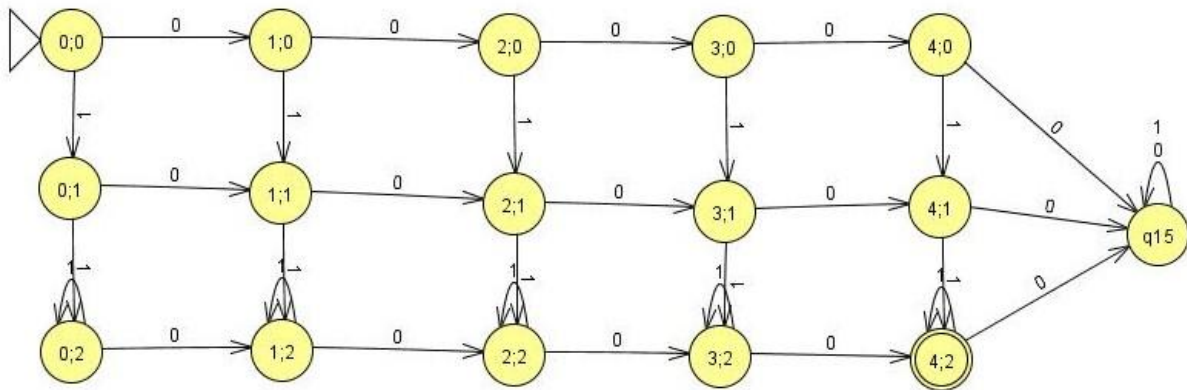
$$D(q_0, 11) = d(D(q_0, 1), 1) = d(q_1, 1) = q_2$$

$$D(q_0, 1) = d(D(q_0, \epsilon), 1) = d(q_0, 1) = q_1$$

$$D(q_0, \epsilon) = q_0$$

String rejeitada pelo DFA

E)



$D("0;0", 00001) = d(D("0;0", 0000), 1) = d("4;0", 1) = "4;1"$

$D("0;0", 0000) = d(D("0;0", 000), 0) = d("3;0", 0) = "4;0"$

$D("0;0", 000) = d(D("0;0", 00), 0) = d("2;0", 0) = "3;0"$

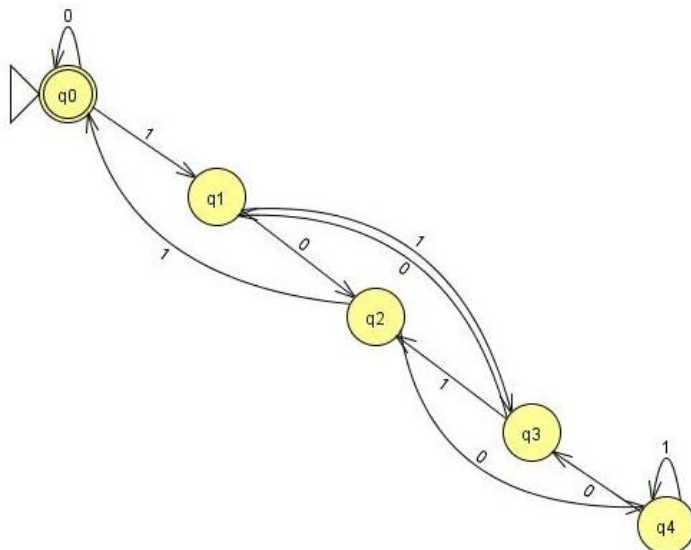
$D("0;0", 00) = d(D("0;0", 0), 0) = d("1;0", 0) = "2;0"$

$D("0;0", 0) = d(D("0;0", \epsilon), 0) = d("0;0", 0) = "1;0"$

$D("0;0", \epsilon) = "0;0"$

String rejeitada pelo DFA

F)



$D(q0, 10100) = d(D(q0, 1010), 0) = d(q0, 0) = q0$

$D(q0, 1010) = d(D(q0, 101), 0) = d(q0, 0) = q0$

$D(q0, 101) = d(D(q0, 10), 1) = d(q2, 1) = q0$

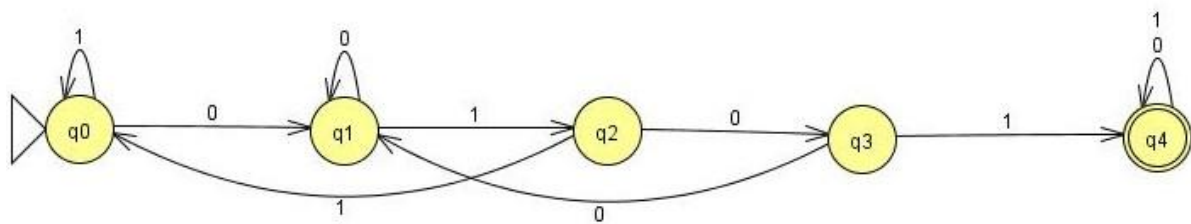
$D(q0, 10) = d(D(q0, 1), 0) = d(q1, 0) = q2$

$D(q0, 1) = d(D(q0, \epsilon), 1) = d(q0, 1) = q1$

$D(q0, \epsilon) = q0$

String aceita pelo DFA

G)



$D(q_0, 101011) = d(D(q_0, 10101), 1) = d(q_4, 1) = q_4$

$D(q_0, 10101) = d(D(q_0, 1010), 1) = d(q_3, 1) = q_4$

$D(q_0, 1010) = d(D(q_0, 101), 0) = d(q_2, 0) = q_3$

$D(q_0, 101) = d(D(q_0, 10), 1) = d(q_1, 1) = q_2$

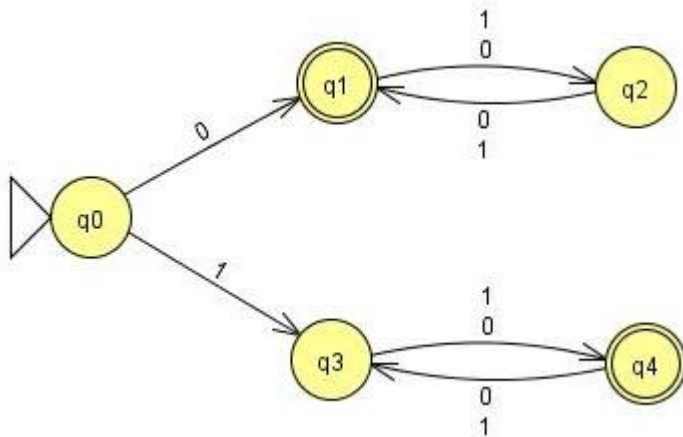
$D(q_0, 10) = d(D(q_0, 1), 0) = d(q_0, 0) = q_1$

$D(q_0, 1) = d(D(q_0, \epsilon), 1) = d(q_0, 1) = q_0$

$D(q_0, \epsilon) = q_0$

String aceita pelo DFA

H)



$D(q_0, 11010) = d(D(q_0, 1101), 0) = d(q_4, 0) = q_3$

$D(q_0, 1101) = d(D(q_0, 110), 1) = d(q_3, 1) = q_4$

$D(q_0, 110) = d(D(q_0, 11), 0) = d(q_4, 0) = q_3$

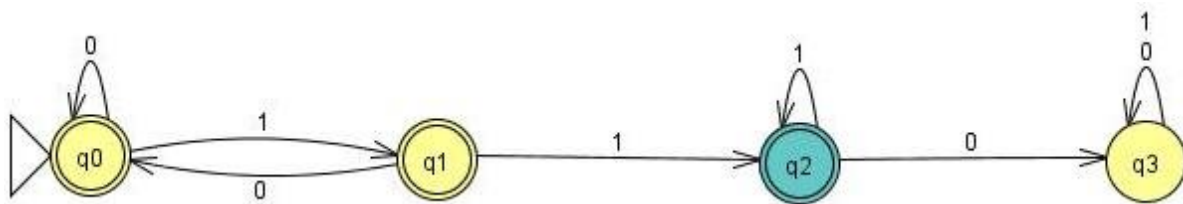
$D(q_0, 11) = d(D(q_0, 1), 1) = d(q_3, 1) = q_4$

$D(q_0, 1) = d(D(q_0, \epsilon), 1) = d(q_0, 1) = q_3$

$D(q_0, \epsilon) = q_0$

String rejeitada pelo DFA

I)



$$D(q_0, 101101) = d(D(q_0, 10110), 1) = d(q_3, 1) = q_3$$

$$D(q_0, 10110) = d(D(q_0, 1011), 0) = d(q_2, 0) = q_3$$

$$D(q_0, 1011) = d(D(q_0, 101), 1) = d(q_1, 1) = q_2$$

$$D(q_0, 101) = d(D(q_0, 10), 1) = d(q_0, 1) = q_1$$

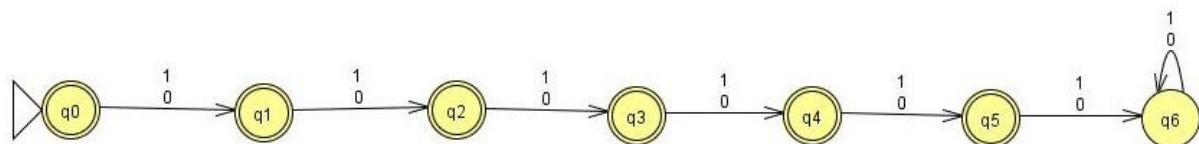
$$D(q_0, 10) = d(D(q_0, 1), 0) = d(q_1, 0) = q_0$$

$$D(q_0, 1) = d(D(q_0, \epsilon), 1) = d(q_0, 1) = q_1$$

$$D(q_0, \epsilon) = q_0$$

String rejeitada pelo DFA

J)



$$D(q_0, 10110) = d(D(q_0, 1011), 0) = d(q_4, 0) = q_5$$

$$D(q_0, 1011) = d(D(q_0, 101), 1) = d(q_3, 1) = q_4$$

$$D(q_0, 101) = d(D(q_0, 10), 1) = d(q_2, 1) = q_3$$

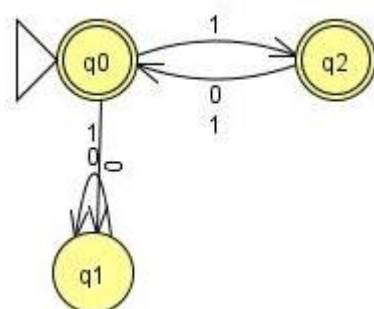
$$D(q_0, 10) = d(D(q_0, 1), 0) = d(q_1, 0) = q_2$$

$$D(q_0, 1) = d(D(q_0, \epsilon), 1) = d(q_0, 1) = q_1$$

$$D(q_0, \epsilon) = q_0$$

String aceita pelo DFA

K)



$$D(q_0, 00101) = d(D(q_0, 0010), 1) = d(q_1, 1) = q_1$$

$$D(q_0, 0010) = d(D(q_0, 001), 0) = d(q_1, 0) = q_1$$

$$D(q_0, 001) = d(D(q_0, 00), 1) = d(q_1, 1) = q_1$$

$$D(q_0, 00) = d(D(q_0, 0), 0) = d(q_1, 0) = q_1$$

$$D(q_0, 0) = d(D(q_0, \epsilon), 0) = d(q_0, 0) = q_1$$

$$D(q_0, \epsilon) = q_0$$

String rejeitada pelo DFA