

Taller 5

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Ejercicio 1

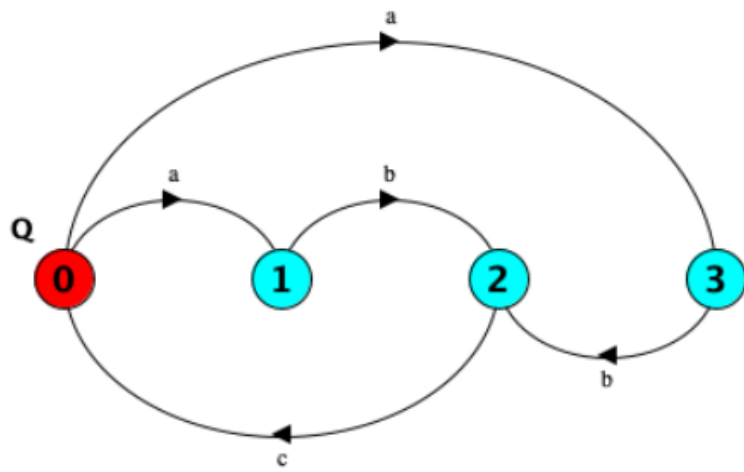


Figure 1: Q graph

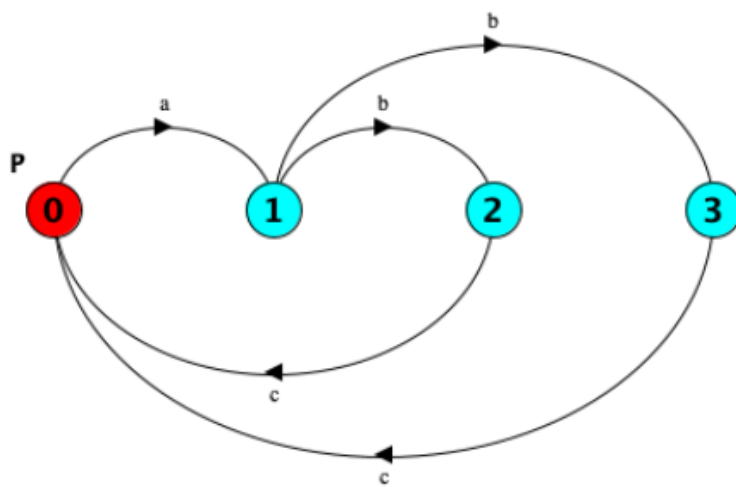


Figure 2: P graph

**Punto fijo para bisimulación fuerte (\sim) **

$$\begin{aligned}\sim 0 = \{ & \\ & (0, 0), (0, 1), (0, 2), (0, 3), \\ & (1, 0), (1, 1), (1, 2), (1, 3), \\ & (2, 0), (2, 1), (2, 2), (2, 3), \\ & (3, 0), (3, 1), (3, 2), (3, 3) \\ & \}\end{aligned}$$

$$\begin{aligned}\sim 1 = \{ & \\ & (0, 0), \\ & \quad (1, 1), \\ & \quad (2, 2), (2, 3), \\ & \quad (3, 1) \\ & \}\end{aligned}$$

$$\begin{aligned}\sim 2 = \{ & \\ & (0, 0), \\ & \quad (1, 1), \\ & \quad (2, 2), (2, 3), \\ & \quad (3, 1) \\ & \}\end{aligned}$$

Como ~ 1 y ~ 2 son iguales, paramos ahí, habiendo encontrado una relación de bisimulación fuerte.