

$a^m b^m c^m$

$q_0 \alpha \alpha \alpha \alpha b b b b c c c$

$x q_1 \alpha \alpha \alpha b b b b c c c$

$x \alpha q_1 \alpha \alpha b b b b c c c$

$x \alpha \alpha q_2 \alpha \alpha b b b b c c c$

$x \alpha \alpha \alpha q_2 \alpha \alpha b b b b c c c$

$x \alpha \alpha \alpha y q_2 \alpha \alpha b b b b c c c$

$x \alpha \alpha \alpha y b b b p_3 c c c$

$x \alpha \alpha \alpha y b b b b p_3 c c c$

$x \alpha \alpha \alpha y b b b b c p_3 c$

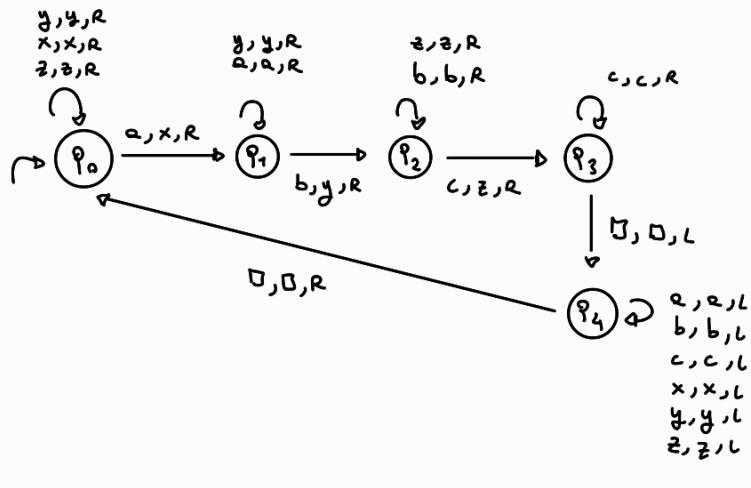
$x \alpha \alpha \alpha y b b b b c c p_3 c$

.....

$q_0 \square x \alpha \alpha \alpha y b b b b c c c \square$

$q_0 \times \alpha \alpha \alpha y b b b b c c c$

$x \times q_1 \alpha \alpha \alpha y b b b b c c c$



$\{w \in \{a, b\}^*: \#_a(w) = \#_b(w)\}$

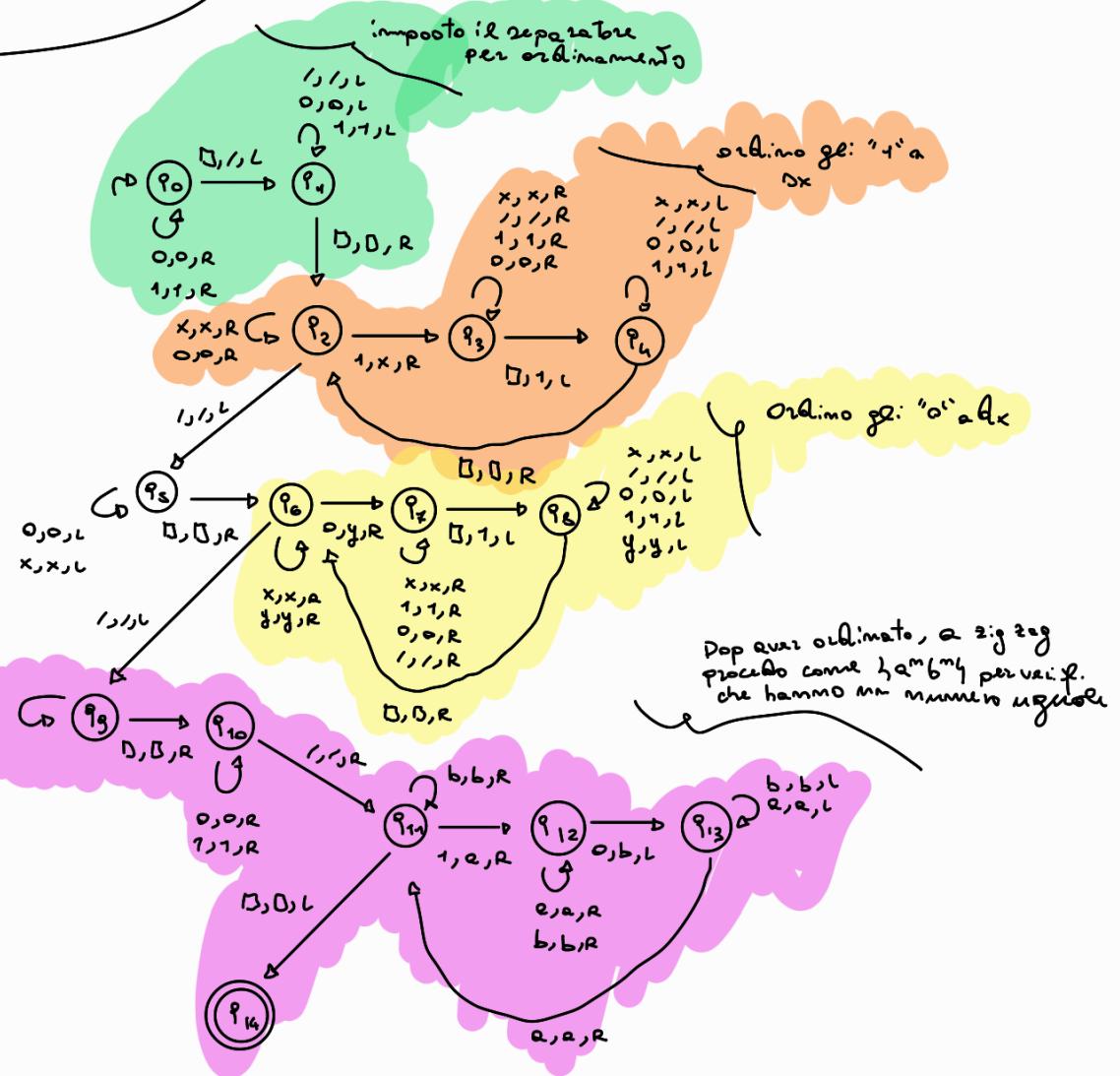
$q_0 \alpha \alpha \alpha \alpha$

$\alpha \alpha \alpha \alpha$

$x \alpha \alpha \alpha \alpha / 1$

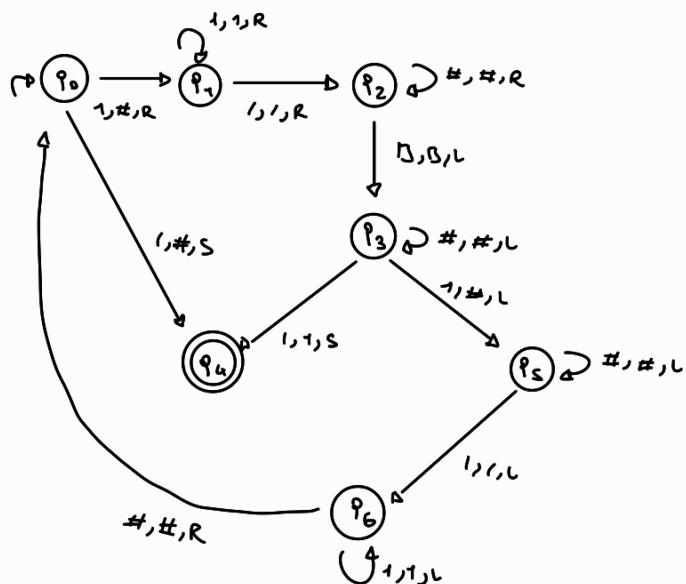
$x \alpha \alpha \alpha \alpha q_1$

$\square x \alpha \alpha \alpha \alpha / 1 1$



$$f(x, y) = |x - y|$$

Asociación copiadora !! primera f: q₀



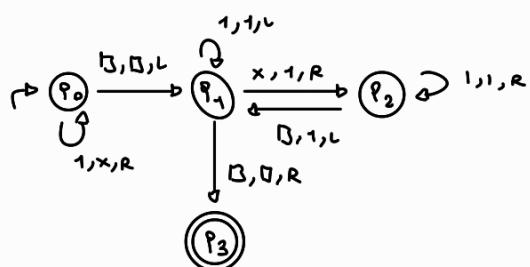
A: gamma²⁶

Asociación

Copiatrice

prima f: q₀
var: nullo !! q₀

$$f(x) = 2x$$



$$L = \{ a^m b^m : m > 0 \}$$

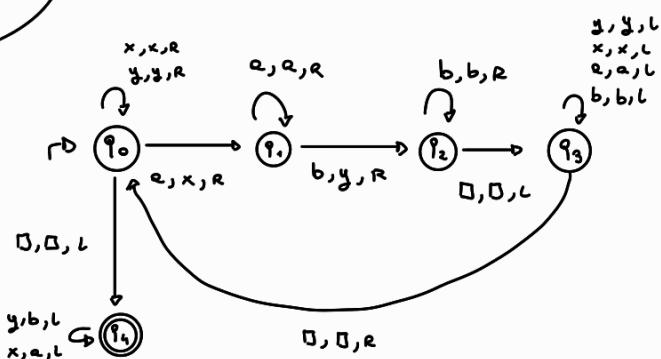
□ q₀ a a a b b b □

□ x q₁ a a b b b □

□ x a q₂ a b b b □

□ x a a q₃ b b b □

□ x a a y b b □



$$f(x, y) = x - y$$

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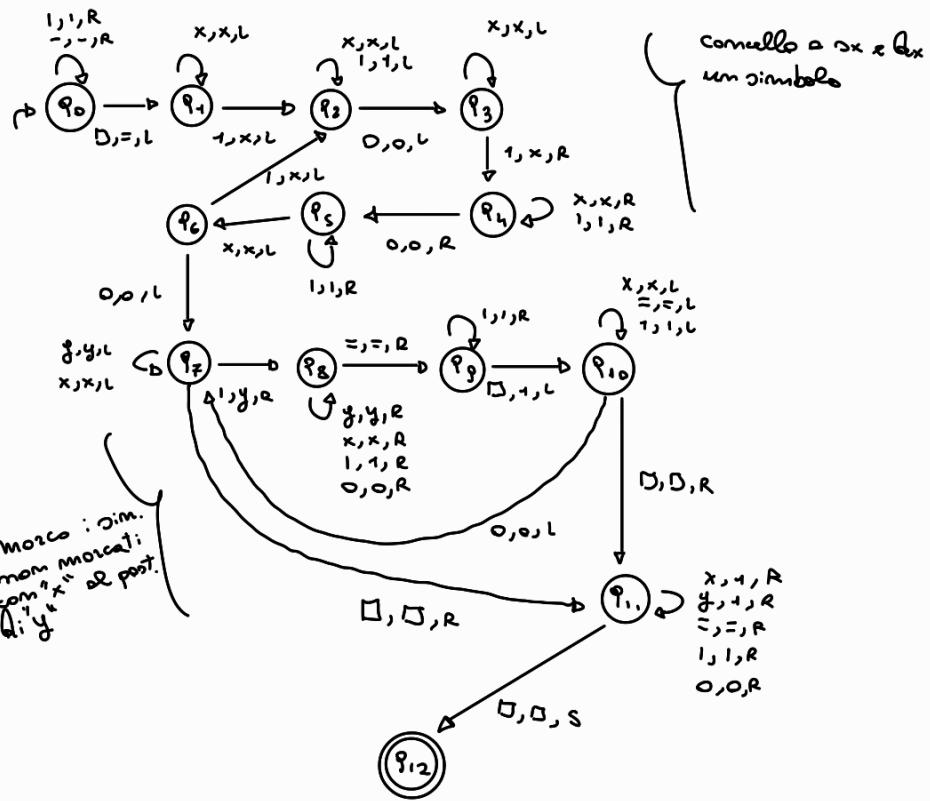
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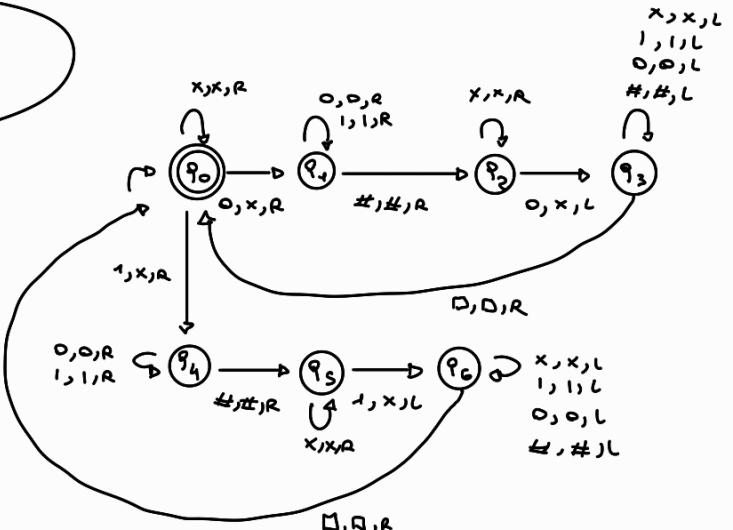
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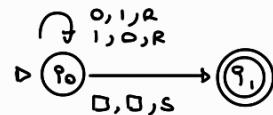


$$L = \{ w\#w : w \in \{0, 1\}^*\}$$

$q_0 0 1 0 \# 0 1 0$
 $\times q_1 0 \# 0 1 0$
 $\times 1 q_2 0 \# 0 1 0$
 $\times 1 0 q_3 \# 0 1 0$
 $\times 1 0 q_3 \# \# x 1 0$
 $\times 1 q_2 0 \# x 1 0$
 $\times q_3 1 0 \# \# x 1 0$
 $q_3 \# \# x 1 0$

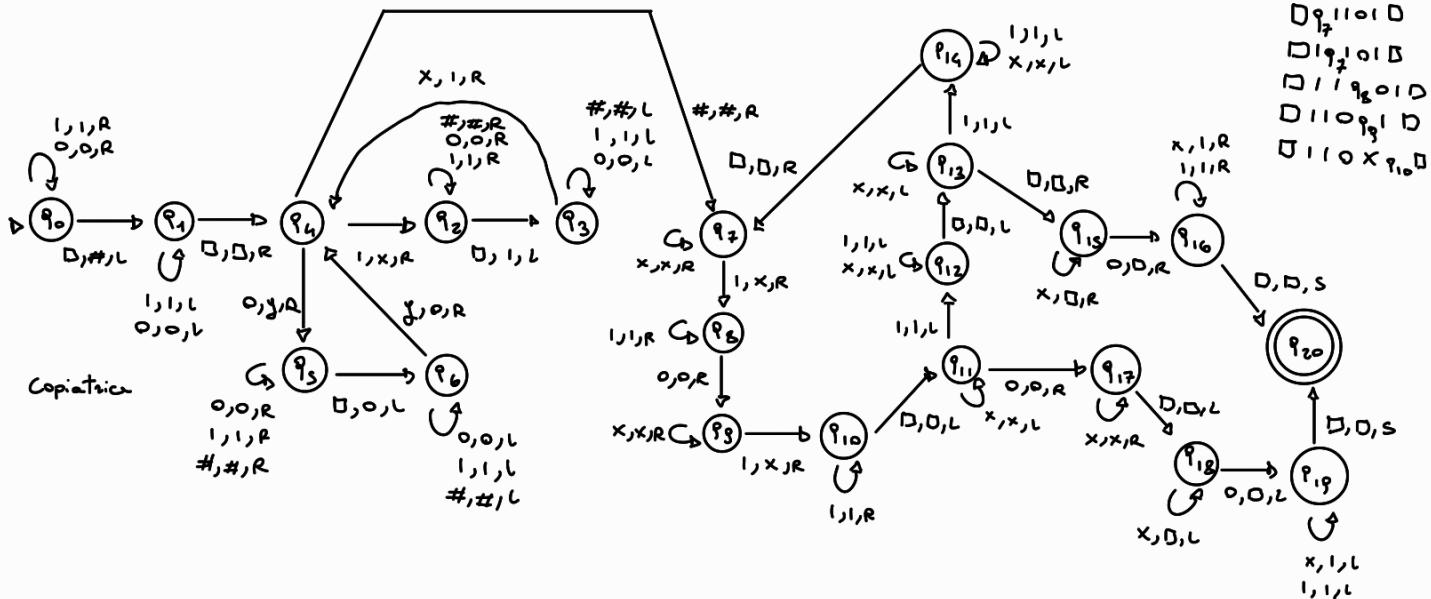


$L = \{ w \in \{0,1\}^* : \text{inverte ilge: } 0 \text{ con } g; 1 \text{ e viceversa} \}$

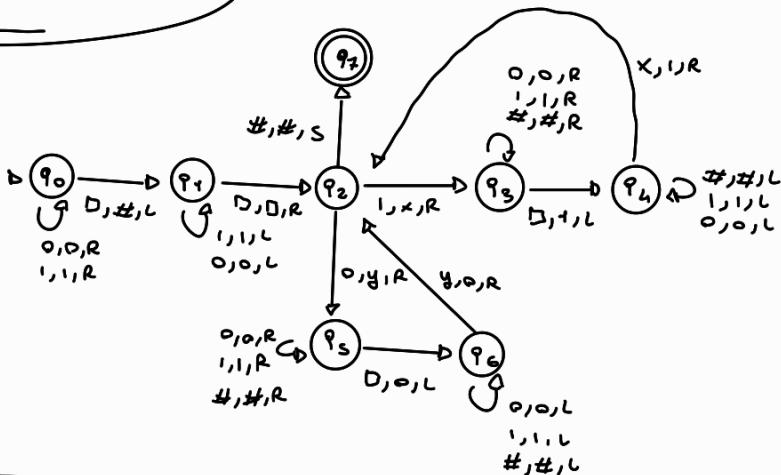


$$f(x,y) = \max\{x, y\}$$

Idee: Tengo un simbolo al primo x e uno al secondo y
finché non termina uno dei due termini:

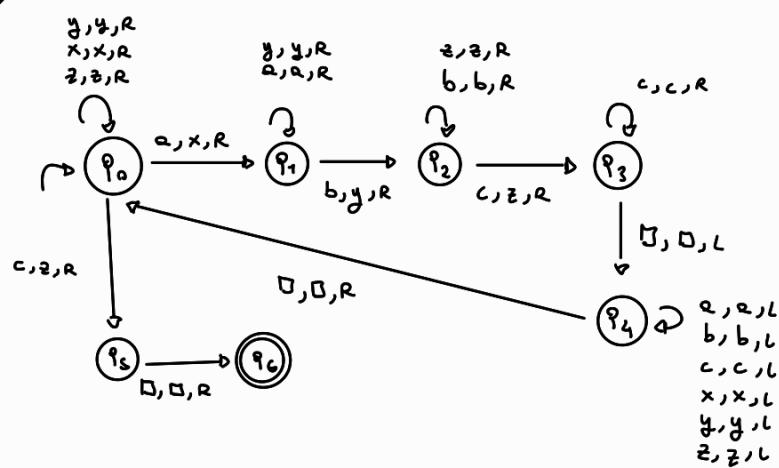


Copiatrice memoria / Bimotore



$$L = \{ a^m b^m c^{m+1} : m > 0 \}$$

babccccc



$$f(x, y) = \min\{x, y\}$$

and now!

$$f(x, y) = x \cdot y$$

