

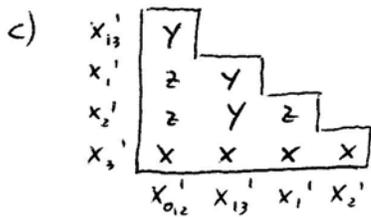
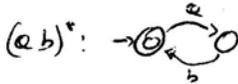
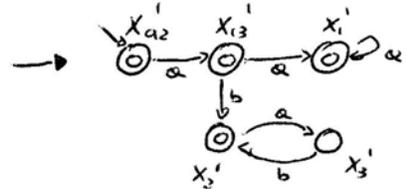
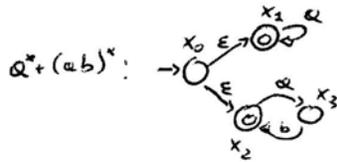
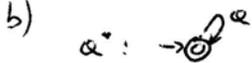
1) a) Regg: $\{x_0, x_1, x_2\}$. Co regg: $\{x_0, x_1, x_2\}$. Bloccanti: $\{x_3\}$. Morti: $\{x_3\}$

b) Automa non regg, non co regg, bloccanti, non reversibile



d) $L(G) = (ab)^* + (ab)^* a$ $L_m(G) = (ab)^* a$

2) a) $abab \in L(G)$ $aaaa \in L(G)$ $abaa \notin L(G)$ $aaabab \notin L(G)$



X: coppie elite al 1° passo (marcati/non marcati)
 Y: coppie elite al 2° passo (inimici evoluti/abilitati)
 Z: coppie elite al 3° passo
 AUTOMA MIWIKO

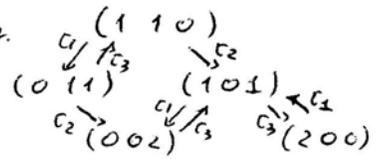
- 3) a) Rete ristrette (ordinaria e pura), macchine limitate, a scelte libere
 b) Dato che e' una macchina limitate e limitate, non viva (grafo non fortemente connesso), non reversibile (Ho non appartiene a componenti amebenti).

In alternativa, mi costruisce il grafo di regg.

ZIHATA (non c'e' w nel grafo)

NON VIVA (t_1 e t_3 vive, t_2 quasi-viva)

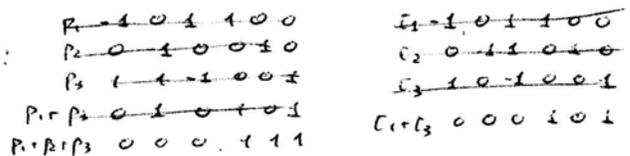
NON REVERSIBILE (grafo non fortemente connesso)



c) Dato che e' una macchina limitate $X = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$ e' un P-invariante con supporto $\{P_1, P_2, P_3\}$

$Y = \begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix}$ e' un T-invariante (ciclo elementare) con supporto $\{C_1, C_3\}$

In alternativa si applica l'algoritmo:



d) $w = \begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix} \quad K=1$

$C_c = -W^T C = [-1 \ -1 \ 1]$

$H_{CO} = K - W^T H_0 = 1 - [0 \ 0 \ 1] \begin{bmatrix} 1 \\ 1 \\ 0 \end{bmatrix} = 1$

