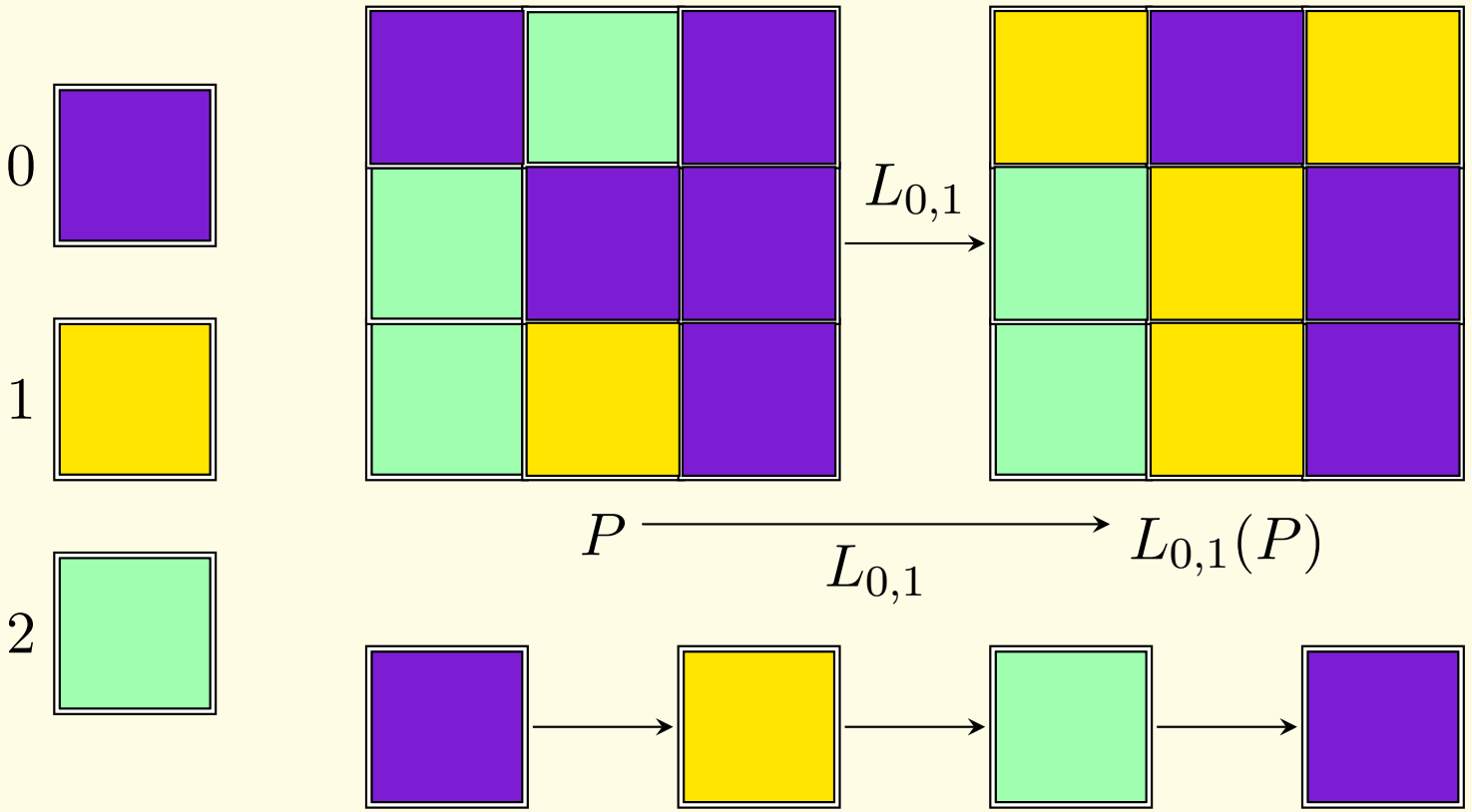
Lights Out



$P = (0, 2, 0, 2, 0, 0, 2, 1, 0)$ $\qquad$ $L_{0,1}(P) = (1, 0, 1, 0, 1, 1, 2, 1, 0)$

Résolution du Jeu

$$\mathcal{L} \times a = \mathcal{L}(3,3) = \begin{pmatrix} 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 & 0 \\ 1 & 1 & 1 & 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 0 & 1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & 1 & 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 0 & 1 & 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 & 0 & 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 & 1 & 1 & 1 \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 1 \end{pmatrix} \times a = b$$

$$b = \begin{pmatrix} 0 \\ 2 \\ 0 \\ 2 \\ 0 \\ 0 \\ 2 \\ 1 \\ 0 \end{pmatrix} \Longrightarrow a = \begin{pmatrix} 2 \\ 0 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 0 \\ 2 \end{pmatrix}$$