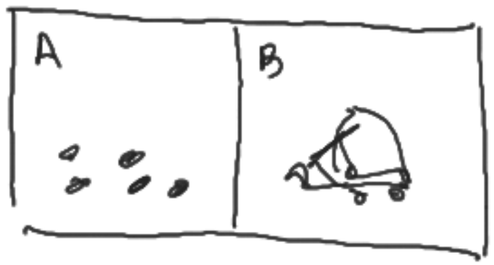

$$S_E = \left\{ \begin{array}{ll} \{(A,0),(B,0)\} & \{(A,1),(B,0)\} \\ \{(A,0),(B,1)\} & \{(A,1),(B,0)\} \end{array} \right\}$$

$m = 2$ (0 = limpio, 1 = sucio)

$N = 2$ $\{A, B\}$

$$|S_E| = N^m = 2^2 = 4$$

$$|S_A| = 2$$

$$S = S_E \times S_A \rightarrow |S| = |S_E| \times |S_A| = 4 \cdot 2 = 8$$

$$f = \left\{ \begin{array}{ll} (A,0) & \text{mover a la derecha} \\ (A,1) & \text{aspirar} \end{array} \right.$$

$$S_0 = \{ \{(A,1),(B,0)\}, B \}$$

$$S_{objetivo} = \{ \{(A,0),(B,0)\}, A \} \cup \{ \{(A,0),(B,0)\}, B \}$$