$$\begin{bmatrix} y_1 = 0 \\ x_1 = 0 \end{bmatrix}$$
 
$$[x_1, y_1] = [0, 0]$$
 
$$[y_2 = \phi(y_3, y_1)]$$
 
$$[y_3 = y_2 + 1]$$
 
$$[y_2, y_3] = [\top, \emptyset]$$
 
$$[x_2] = [\emptyset]$$
 
$$[y_4 = \phi(y_3, y_1, y_1)]$$
 
$$[x_3 = \phi(x_1, x_1, x_2)]$$