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$$a = g \iff h = g$$

$$a = h \iff a = h$$

$$g = h \implies d = f \implies b = c$$

$$\implies \quad a = g = h$$

$$d = f$$

$$b = e$$

Present state	next state		output	
	$x = 0$	$x = 1$	$x = 0$	$x = 1$
a	a	c	1	0
b	c	d	0	1
c	a	b	0	0
d	d	a	0	0