③ Assigning multiple secondary states assignments to the same symbolic state

sec. states ↓ \ x_1x_2 →	00	01	11	10
a	a	c	a	a
b	a	c	b	b
c	c	c	b	a

→

sec. states ↓	assignments	x_1x_2 → 00	01	11	10
a	00	00	10	00	00
b	01	00	11	01	01
c	11	11	11	01	10
c	10	10	10	11	00

④ Using one-hot encoding

- Given n states, use n secondary state variables $y_1, y_2, \cdots, y_n$
- Encode y_1 as $10\cdots0$, y_2 as $010\cdots0$, y_3 as $001\cdots0$, $\cdots$, y_i as $0\cdots010\cdots0$ and $\cdots$ y_n as $0\cdots01$.
  ↑ i-th position
- For transition from i-th stable state to j-th stable state, introduce an encoding with assignment $0\cdots010\cdots010\cdots0$
  i-th position, j-th position

sec. states ↓ \ x_1x_2 →	
a	
b	
c	
d	

sec. states ↓	assignments	x_1x_2 → 00	01	11	10
a	100	a	s_{ac}	a	a
b	010	s_{ab}	s_{bc}	b	b
c	001	c	c	s_{bc}	s_{ac}
s_{ab}	110	a	—	—	—
s_{bc}	011	—	c	b	—
s_{ac}	101	—	c	—	a

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