

#2

A	B	C	FD:
a_1	b_1	c_2	$A \rightarrow B$
a_1	b_1	c_2	$C \rightarrow B$
a_2	b_1	c_1	
a_2	b_1	c_3	$AC \rightarrow B$

$$A \rightarrow B ?$$

答：能，因为 A 只能指向同样的 B.

$$A \rightarrow B ? \quad \checkmark$$

$$\begin{array}{l} a_1 \rightarrow b_1 \\ a_2 \rightarrow b_1 \end{array}$$

$$A \rightarrow C ?$$

$$\begin{array}{l} a_2 \rightarrow c_1 \\ a_2 \rightarrow c_3 \end{array} \quad \times$$

$$B \rightarrow A ?$$

$$\begin{array}{l} b_1 \rightarrow a_1 \\ b_1 \rightarrow a_2 \end{array} \quad \times$$

$$B \rightarrow C ?$$

$$\begin{array}{l} b_1 \rightarrow c_1 \\ b_1 \rightarrow c_2 \\ b_1 \rightarrow c_3 \end{array} \quad \times$$

$$C \rightarrow A ?$$

$$\begin{array}{l} c_1 \rightarrow a_2 \\ c_2 \rightarrow a_1 \\ c_3 \rightarrow a_2 \end{array} \quad \checkmark$$

$$C \rightarrow B ?$$

$$\begin{array}{l} c_1 \rightarrow b_1 \\ c_2 \rightarrow b_1 \\ c_3 \rightarrow b_1 \end{array} \quad \checkmark$$

$$A B \rightarrow C ?$$

$$\begin{array}{l} a_1 b_1 \rightarrow c_2 \\ a_2 b_1 \rightarrow c_1 \\ \quad \quad \quad \boxed{c_3} \end{array} \quad \times$$

$$A C \rightarrow B ?$$

$$\begin{array}{l} a_1 c_2 \rightarrow b_1 \\ a_2 c_1 \rightarrow b_1 \\ a_2 c_3 \rightarrow b_1 \end{array} \quad \checkmark$$

$$B C \rightarrow A ?$$

$$\begin{array}{l} b_1 c_2 \rightarrow a_1 \\ b_1 c_1 \rightarrow a_2 \\ b_1 c_3 \rightarrow a_2 \end{array} \quad \checkmark$$

$$A \rightarrow B C ?$$

$$\begin{array}{l} a_1 \rightarrow b_1 c_2 \\ a_2 \rightarrow c_1 c_3 \end{array} \quad \times$$

$$B \rightarrow A C ?$$

$$\begin{array}{l} b_1 \rightarrow c_2 \\ b_1 \rightarrow c_2 \\ \quad \quad \quad \boxed{c_3} \end{array} \quad \times$$

$$C \rightarrow A B ?$$

$$\begin{array}{l} c_1 \rightarrow a_2 b_1 \\ c_2 \rightarrow a_1 b_1 \\ c_3 \rightarrow a_2 b_1 \end{array} \quad \checkmark$$

FD:

$$\begin{array}{l} A \rightarrow B \\ C \rightarrow A \\ C \rightarrow B \\ AC \rightarrow B \\ BC \rightarrow A \\ C \rightarrow AB \end{array}$$

Completely Non-trivial.

$$\begin{array}{l} AB \rightarrow B \\ A B \rightarrow A \\ A \rightarrow A \end{array}$$

trivial FD