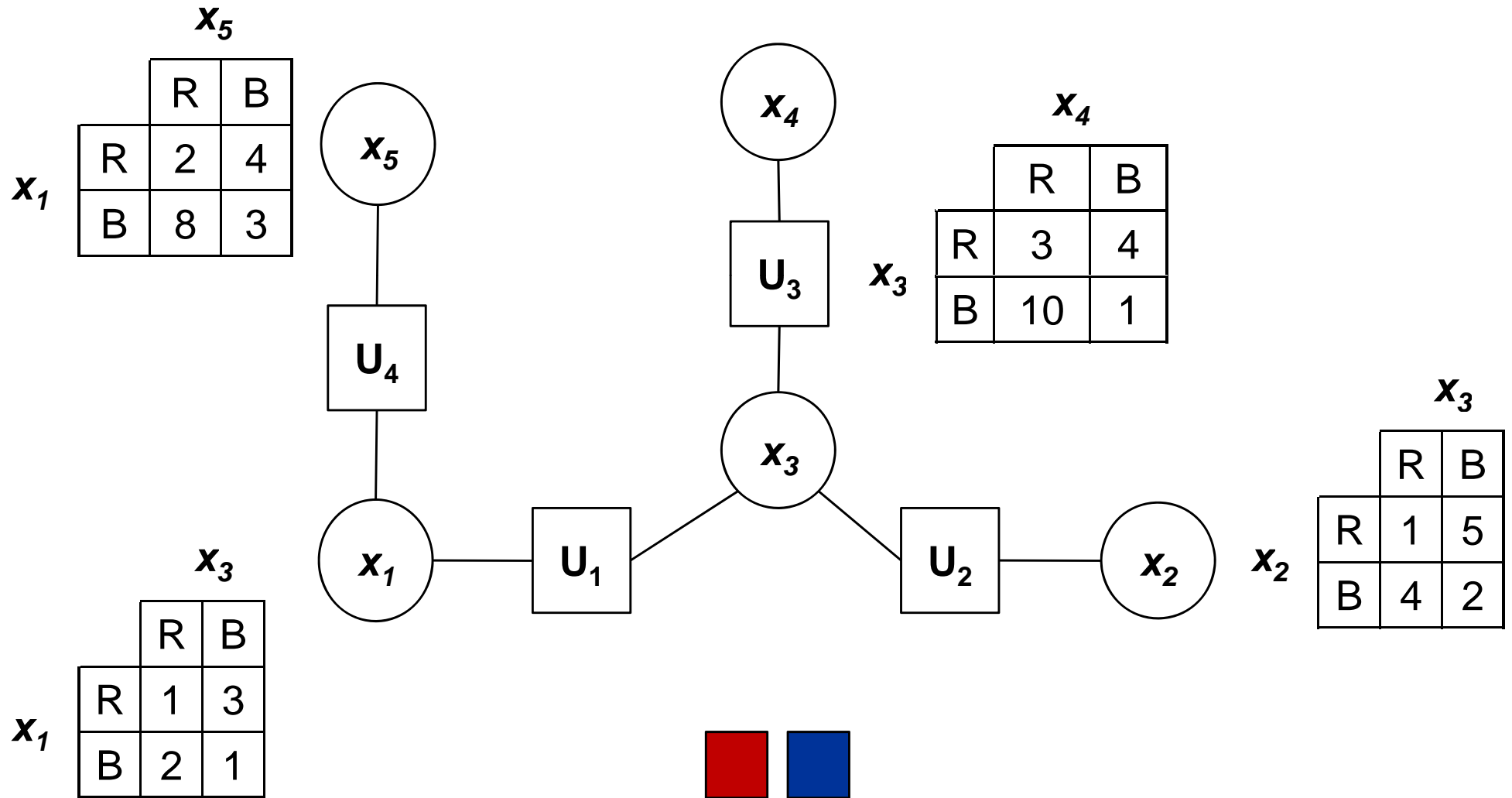


# Exercise



# Exercise

- Step 1

$$Q_{2 \rightarrow 2}(x_2) = \{0, 0\}$$

$$Q_{4 \rightarrow 3}(x_4) = \{0, 0\}$$

$$Q_{5 \rightarrow 4}(x_5) = \{0, 0\}$$

- Step 2

$$R_{2 \rightarrow 3}(x_3) = \{4, 5\}$$

$$R_{3 \rightarrow 3}(x_3) = \{4, 10\}$$

$$R_{4 \rightarrow 1}(x_1) = \{4, 8\}$$

- Step 3

$$Q_{1 \rightarrow 1}(x_1) = \{4, 8\}$$

$$Q_{3 \rightarrow 1}(x_3) = \{8, 15\}$$

# Exercise

- Step 4

$$R_{1 \rightarrow 1}(x_1) = \{18, 16\}$$

$$R_{1 \rightarrow 3}(x_3) = \{10, 9\}$$

- Step 5

$$Q_{1 \rightarrow 4}(x_1) = \{18, 16\}$$

$$Q_{3 \rightarrow 2}(x_3) = \{14, 19\}$$

$$Q_{3 \rightarrow 3}(x_3) = \{14, 14\}$$

- Step 7

$$R_{4 \rightarrow 5}(x_5) = \{24, 22\}$$

$$R_{3 \rightarrow 4}(x_4) = \{24, 18\}$$

$$R_{2 \rightarrow 2}(x_2) = \{24, 21\}$$

# Exercise

## ■ Step 8

$$Z_1(x_1)=\{22,24\} \quad Z_2(x_2)=\{24,21\} \quad Z_3(x_3)=\{18,24\}$$

$$Z_4(x_4)=\{24,18\} \quad Z_5(x_5)=\{24,22\}$$

## ■ Step 9

$$x_1=B \quad x_2=R \quad x_3=B \quad x_4=R \quad x_5=R$$

# Exercise

