



$$P_{1_2} = 0.5$$

$$P_{2_1} = 0.1$$

$$P_{1_3} = 0.3$$

$$\mathbb{P}(X_1 = 2 \wedge X_2 = 1 \wedge X_3 = 3) = 0.5 \cdot 0.1 \cdot 0.3 = 0.015$$