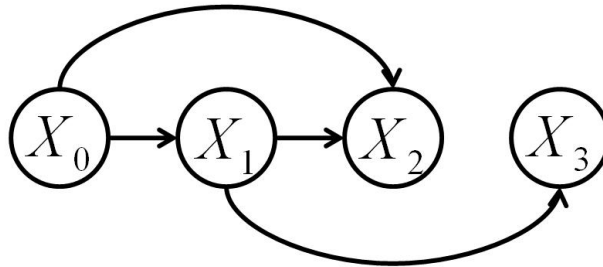


## 0.1 Bayesian Network Structure



## 0.2 Probability Assignments

$$P(X_0 = 1) = 0.5$$

$$P(X_1 = 1|X_0 = 0) = 0.5$$

$$P(X_1 = 1|X_0 = 1) = 0.5$$

$$P(X_2 = 1|X_0 = 0, X_1 = 0) = 0.1$$

$$P(X_2 = 1|X_0 = 0, X_1 = 1) = 0.2$$

$$P(X_2 = 1|X_0 = 1, X_1 = 0) = 0.3$$

$$P(X_2 = 1|X_0 = 1, X_1 = 1) = 0.15$$

$$P(X_3 = 1|X_1 = 0) = 0.99$$

$$P(X_3 = 1|X_1 = 1) = 0.01$$