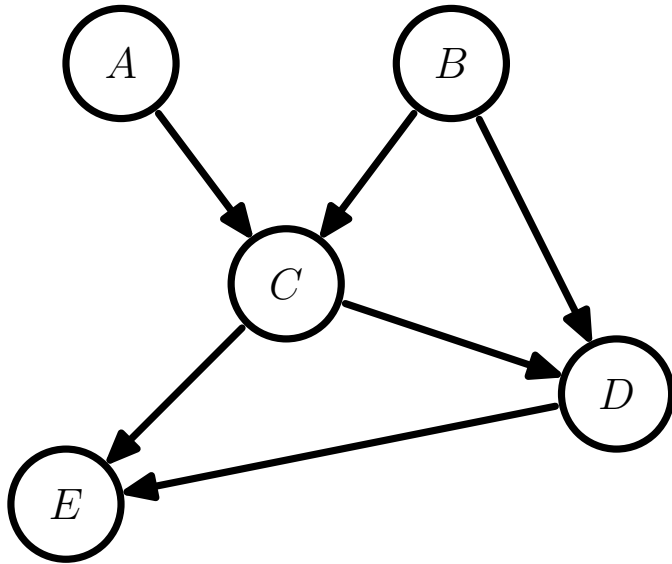


Ancestral pass for directed graphical models:

- sample each top level variable from its marginal
- sample each other node from its conditional once its parents have been sampled



Sample:

$$A \sim P(A)$$

$$B \sim P(B)$$

$$C \sim P(C | A, B)$$

$$D \sim P(D | B, C)$$

$$E \sim P(E | C, D)$$

$$P(A, B, C, D, E) = P(A) P(B) P(C | A, B) P(D | B, C) P(E | C, D)$$