

function  $\text{PRIOR-SAMPLE}(bn)$  returns an event sampled from the prior specified by  $bn$   
inputs:  $bn$ , a Bayesian network specifying joint distribution  $P(X_1, \dots, X_n)$

$\mathbf{x} \leftarrow$  an event with  $n$  elements

**for each** variable  $X_i$  **in**  $X_1, \dots, X_n$  **do**

$\mathbf{x}[i] \leftarrow$  a random sample from  $P(X_i \mid \text{parents}(X_i))$

**return**  $\mathbf{x}$