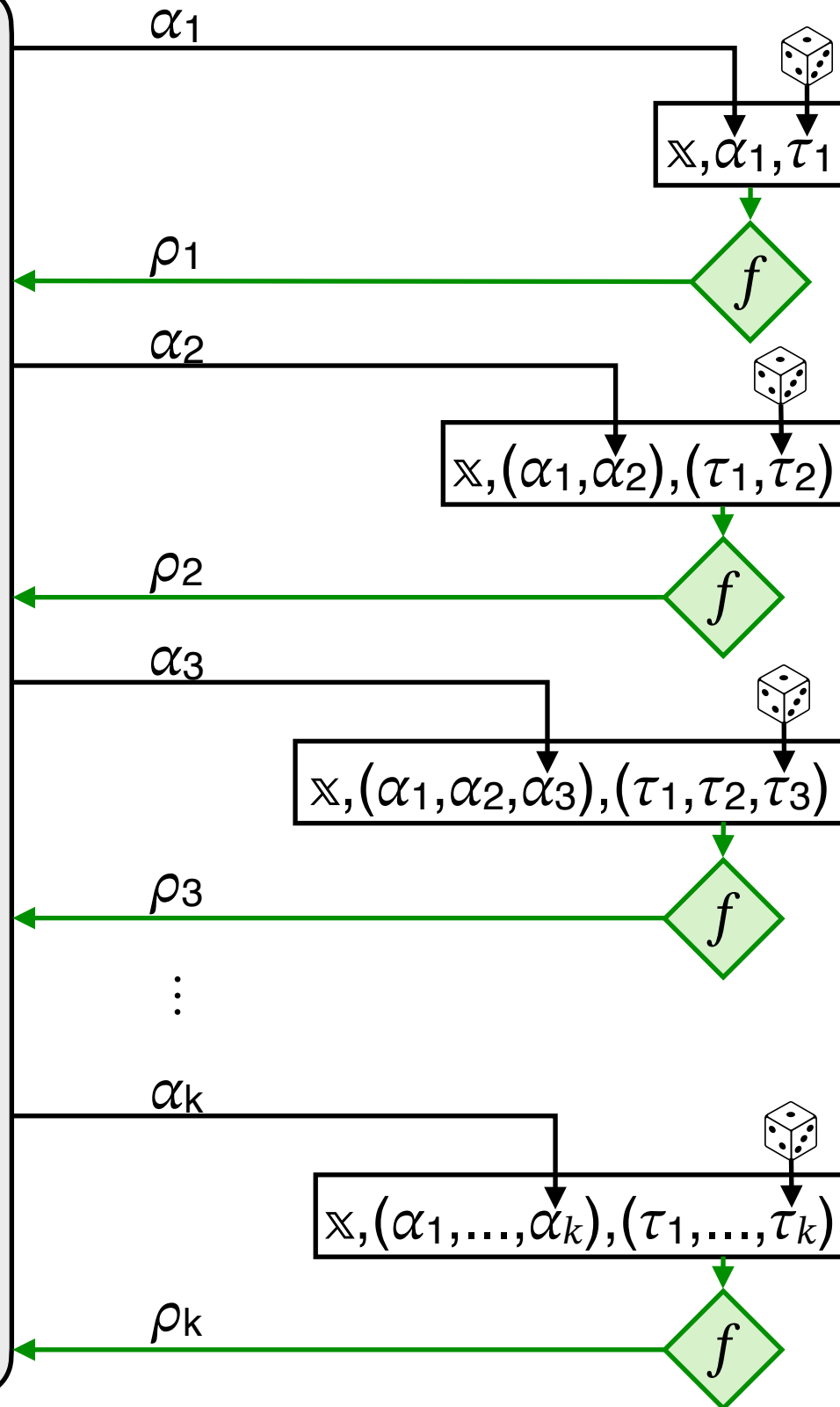


$$\mathcal{P}(\mathbb{X}, \mathbb{W})$$

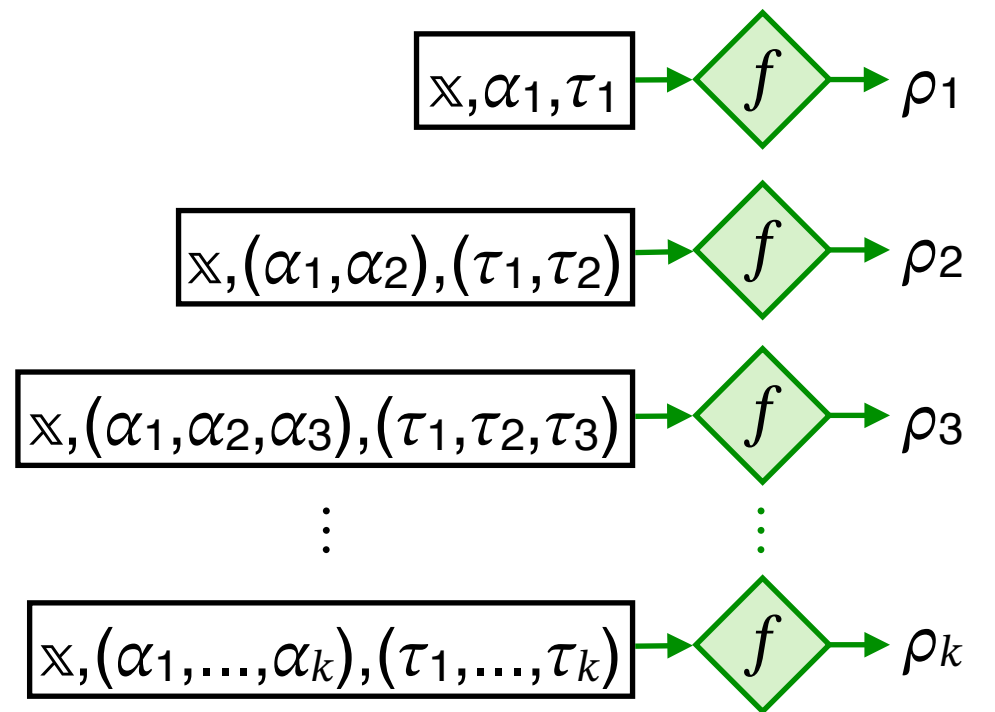
$$\mathbf{P}_{\text{IP}}(\mathbb{X}, \mathbb{W})$$


$$\pi := ((\alpha_1, \dots, \alpha_k), (\tau_1, \dots, \tau_k))$$

$$\pi$$

$$\mathcal{V}(\mathbb{X}, \pi)$$

- parse π as $((\alpha_1, \dots, \alpha_k), (\tau_1, \dots, \tau_k))$
- derive IP randomness



- check IP decision

$$\mathbf{V}_{\text{IP}}(\mathbb{X}, (\alpha_1, \dots, \alpha_k), (\rho_1, \dots, \rho_k))$$