algo (REINFORCE) [Williams 1992]

1°. sample  $\{u_n\}_{n=1}^N \sim P_{\theta}$ 2°. uplate  $\Theta^{\dagger} = \Theta - \gamma \cdot \frac{1}{N} \sum_{n=1}^{\infty} C(u_n) \cdot D_{\theta} \log P_{\theta}(u_n)$ L)  $E[C(u)] D_{\theta} \log P_{\theta}(u)] = \lim_{N \to \infty} \log Central Limit Thin$