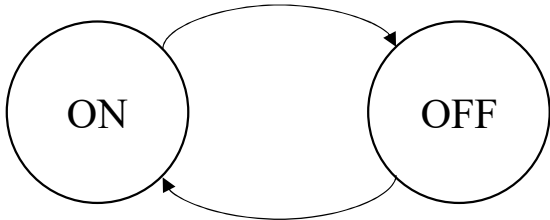$$\Pr\{s_{t+1} = ON | s_t = OFF\} = 1$$

$$\Pr\{s_{t+1} = OFF | s_t = ON\} = 1$$