

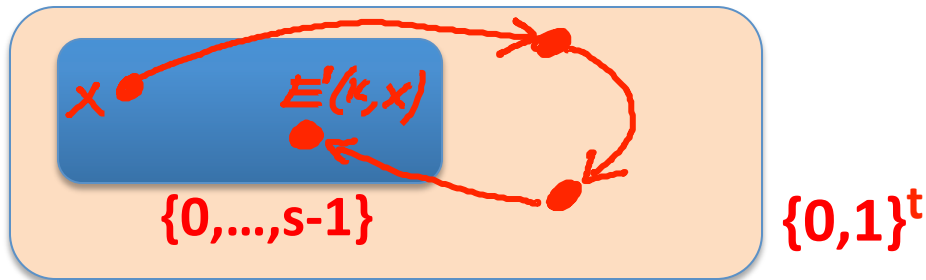
# Step 2: from $\{0,1\}^t$ to $\{0,\dots,s-1\}$

Given PRP  $(E,D): K \times \{0,1\}^t \rightarrow \{0,1\}^t$

we build  $(E',D'): K \times \{0,\dots,s-1\} \rightarrow \{0,\dots,s-1\}$

$E'(k, x)$ : on input  $x \in \{0,\dots,s-1\}$  do:

$y \leftarrow x$ ;    do  $\{ y \leftarrow E(k, y) \}$     until  $y \in \{0,\dots,s-1\}$ ;    output  $y$



Expected # iterations: 2