Judge J	**Inverter** I	**virtual** A
sample uniform $x \in \{0,1\}^k$ $y := f(x)$		
	▶ y	
	▶ $\widetilde{m}$	select $\widetilde{m}$
	unpack $\widetilde{m} =: b_1 \| b_2 \| \dots \| b_k$	
	for $i = 1 \dots k$ **do** sample $r_i^0 \in \{0,1\}^k$ sample $r_i^1 \in \{0,1\}^k$ compute $f_i^0 := f(r_i^0)$ compute $f_i^1 := f(r_i^1)$	
	sample $j \in [k]$ reassign $f_j^{1-b_j} := y$	
	$\widetilde{\sigma} := r_1^{b_1} \| r_2^{b_2} \| \dots \| r_k^{b_k}$ $pk := \begin{pmatrix} f_1^0 & f_2^0 & \cdots & f_k^0 \\ f_1^1 & f_2^1 & \cdots & f_k^1 \end{pmatrix}$	
		▶ $pk, \widetilde{\sigma}$ forge (m, σ)
	▶ (m, σ) unpack $\sigma =: s_1 \| s_2 \| \dots \| s_k$ $x' := s_j$	
▶ x' **return** $y \stackrel{?}{=} f(x')$		