$\mathbf{Judge}\ J$	Inverter I
sample uniform $x \in \{0, 1\}^k$ y := f(x)	
	ightharpoonup y
	$\ell := 0$
	while not $M(1^{\ell}, \epsilon, y)$ :
	$x' := \epsilon$ $\mathbf{for} \ i = 1 \dots \ell;$
	if $M(1^{\ell}, x'    0, y)$ then
	$x' := x' \parallel 0$
	else $x' := x'    1$
/	
ightharpoonup x'	
$\mathbf{return}\ y \stackrel{?}{=} f(x')$	