

Judge J

sample uniform $x \in \{0, 1\}^k$
 $y := f(x)$

► $I.x$

return $y \stackrel{?}{=} f(I.x)$

Inverter I

► $J.y$

$\ell := 0$

while not $M(1^\ell, \epsilon, J.y)$:

└ $\ell := \ell + 1$

$x := \epsilon$

for $i = 1 \dots \ell$:

┌ **if** $M(1^\ell, x \parallel 0, J.y)$ **then**

$x := x \parallel 0$

else

$x := x \parallel 1$