Judge J	**Inverter** I
sample distinct $p, q \in [2^k, 2^{k+1})$	
$n := pq$	
sample $e \in \mathbb{Z}^*_{\phi(n)}$	
sample uniform $y \in \mathbb{Z}_n$	
	► $J.y$
	compute x
► $I.x$	
return $y \overset{?}{=} x^{e_k}$	