$\mathbf{Judge}\ J$	${\bf Inverter}\ I$
sample uniform $\theta \in \mathbb{Z}_{n_k}$	
$y := g_k^{\theta} \in G_k$	
	$\triangleright y$ compute $\theta'$
<b>▶</b> θ'	compate v
$\mathbf{return} \; \theta \stackrel{?}{=} \theta'$	