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