$\mathbf{Judge}\ J$	Adversary B	$\mathbf{virtual}\ A$
	$egin{aligned} lackbox{lack} m_1, \dots, m_\ell \ \mathbf{for} \ i = 0 \dots \ell \mathbf{:} \ (sk_i, pk_i) := \mathtt{gen}(1^k) \end{aligned}$	select m_1, \ldots, m_ℓ
$ B.\widetilde{m} $ $ (sk, pk) := gen(1^k) $	sample $t \in [\ell]$ $\widetilde{m} := m_t pk_t$	
$\widetilde{\sigma} := \operatorname{sgn}(sk, B.m_i)$	$\blacktriangleright J.pk, J.\widetilde{\sigma}$	
	$pk_{t-1} := pk$	
	for $i = 1 \dots \ell$: if $i = t$ then $\eta_i := J.\widetilde{\sigma}$ else $\eta_i := \operatorname{sgn}(sk_{i-1}, m)$ $\sigma_i := (m_j \ pk_j\ \eta_j)_{1 \le j \le i}$	
		$ ightharpoonup pk_0, \sigma_1, \ldots, \sigma_\ell$
	$\blacktriangleright (m', \sigma')$	forge (m', σ')
	unpack $\sigma' =: (m'_j pk'_j \eta'_j)$	$1 \le j \le i'$
	$m := m_t' \ pk_t'$	
$ ightharpoonup B.m, B.\sigma$	$\sigma := \eta'_t$	
$\mathbf{return} \mathtt{vrf}(pk, B.m, B.\sigma)$		
$\wedge (B.m \neq B.\widetilde{m})$		