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