

J
<p>► $B.m_1, \dots, B.m_l$</p> <p>$(sk, pk) := \text{gen}(1^k)$</p> <p>for $i = 1 \dots l$:</p> <p style="padding-left: 20px;">$\sigma_i := \text{sgn}(sk, B.m_i)$</p> <p>► $B.m, B.\sigma$</p> <p>return $\text{vrf}(pk, B.m, B.\sigma)$</p> <p>$\wedge (\forall i \in [l], B.m \neq B.m_i)$</p>

B	virtual A
<p>► m_1, \dots, m_l</p> <p>► $J.pk$</p> <p>► $J.\sigma_1, \dots, J.\sigma_l$</p> <p>sample $a \in \{0, 1\}^k$</p> <p>sample $b \in \{0, 1\}^k \setminus \{a\}$</p> <p>$pk' := J.pk \ a \ b$</p> <p>for $i = 1 \dots l$:</p> <p style="padding-left: 20px;">if $m_i = a$ then fail</p> <p style="padding-left: 20px;">else $\sigma'_i := \sigma_i \ 0$</p> <p>► (m, σ')</p> <p>unpack $\sigma' =: \sigma \ \eta$</p>	<p>select m_1, \dots, m_l</p> <p>► pk'</p> <p>► $\sigma'_1, \dots, \sigma'_l$</p> <p>forge (m, σ')</p>