

A
 k_{AB}

B
 k_{AB}

$chall \xleftarrow{\$} \{0, 1\}^\lambda$

\xleftarrow{chall}

$res \leftarrow \text{MAC}_{k_{AB}}(chall)$

\xrightarrow{res}

verify if
 $res = \text{MAC}_{k_{AB}}(chall)$