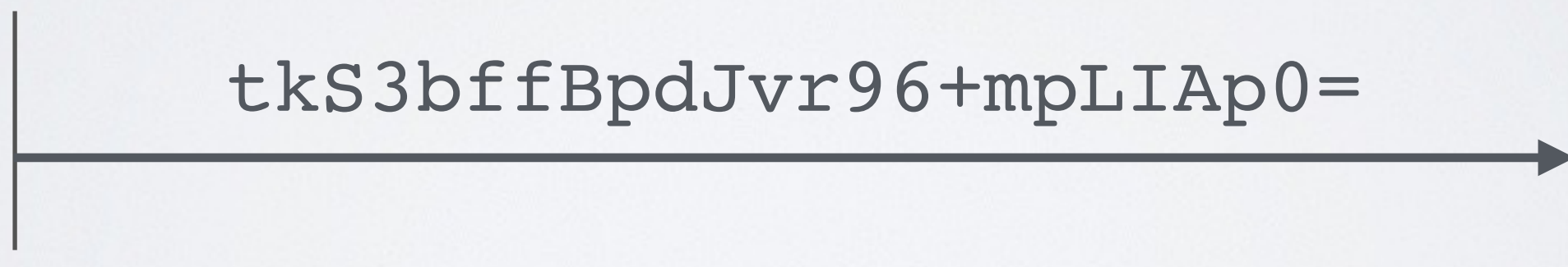


(pure) encryption ensures confidentiality ...

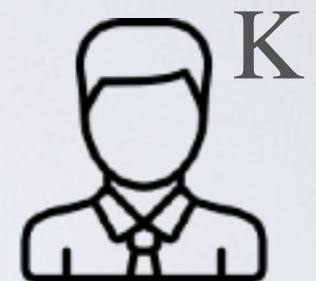
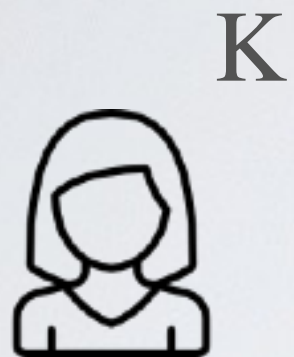


$$E_k(m) = \text{tkS3bffBp} \dots$$

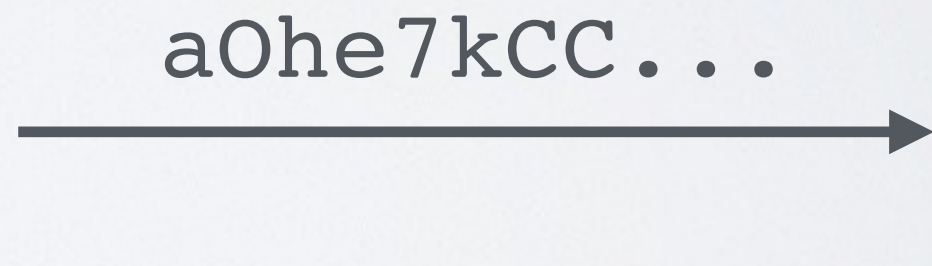
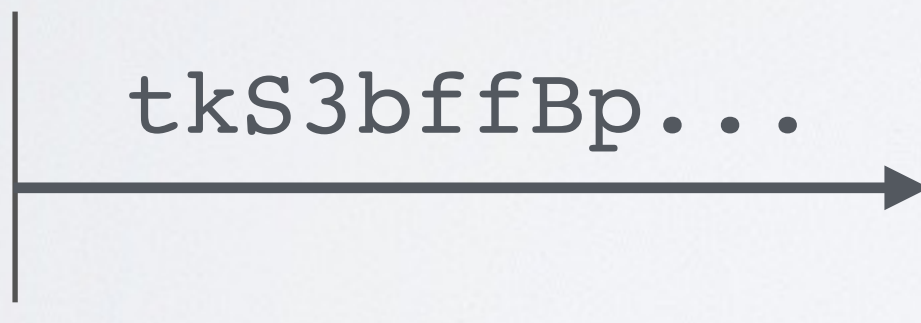


$$D_k(\text{"tkS3bffBp} \dots \text{"}) = m$$

... but does not ensure integrity !



$E_K(m) = \text{tkS3bffBp} \dots$



$D_K(\text{"a0he7kCC} \dots \text{"}) = m'$

● Encrypting a message does not authenticate it