

**User**

**Application**

Table of hash values  
of all users' passwords.

*User sends identity  $U$  and  
password  $P$*

$U, p$

*Application computes hash of password*

$H(P) = p$

*Application determines  
whether  $p$  is in the table entry  
corresponding with user  $U$ .*

$b = 0$  ( $p$  not in table)  
 $b = 1$  ( $p$  in table)

Decision bit  $b$

