

# Quiz 17

1.

$$\overline{\text{letter}} \overline{\text{digit}} \overline{\text{digit}}$$
$$26 \cdot 10 \cdot 10 = 2600$$

2. Pigeons = bankers

holes = possible passcodes

$$p = \# \text{ pigeons} = 3000$$

$$h = \# \text{ passcodes} = 2600$$

$$p \gg h \Rightarrow$$
$$3000 \gg 2600$$

At least 2 bankers  
have same passcodes

3.  $2601 > 2600$ ,  $(2601)$  is

$$p \quad h$$

Smallest such.