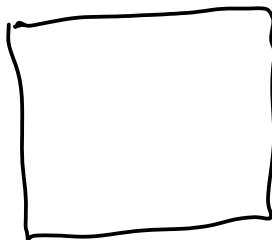


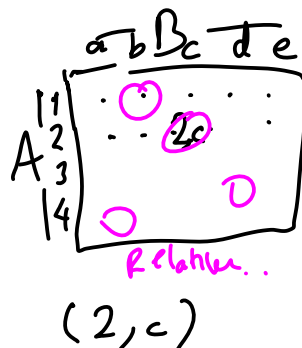
# Equivalence relation

- Reflexive
- Symmetric
- Transitive

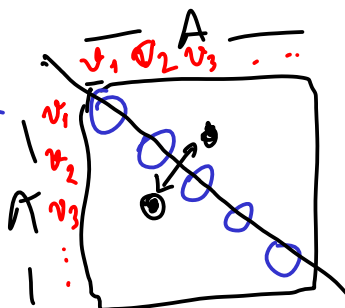


set A      set B

$A \times B$



all cells in the  
diag  $\in R$



$$11 = 4 \text{ mod } 7$$

$$14 = 0 \text{ mod } 7$$

$$= n \text{ mod } 7$$

set  $\rightarrow$  eq.

$$1 = 15 \text{ mod } 7$$

$$15 = 22 \text{ mod } 7$$

$$\{0, 7, 14, \dots\} \quad \{1, 8, 15, \dots\} \quad \dots$$

computer: a device that has a keyboard (cpu)

