

- A B
- в с
- C D

some As are Bs

 $\mathsf{A}\cap\mathsf{B}\neq\varnothing$



no As are Bs

 $A \cap B = \emptyset$



every A is a B

 $\mathsf{A} \subseteq \mathsf{B}$

Relations between sets as sets of ordered pairs of sets

a) { <A,B> | A \subseteq B } b) { <A,B> | A \cap B $\neq \emptyset$ } C) { <A,B> | A \cap B = Ø }