**Definition** (Properties of endorelations). An endorelation  $R \subseteq A \times A$  is: Symmetric if  $\forall x, x' \in A$ :  $\langle x, x' \rangle \in R \Leftrightarrow \langle x', x \rangle \in R$ ;

 $ightharpoonup Reflexive if <math>\forall x \in A: \langle x, x \rangle \in R;$