$i(e,e') := \left\{ \begin{array}{ll} 0 & \text{if } e = e' \text{ or } e \cap e' = \varnothing; 1 \\ \text{if } e' \text{ islyingontheleftsidein} e; -1 & \text{if } e' \text{ islyingontherightsideof} e. \end{array} \right.$