Exercise 33
Show that the completion algorithm for Gödel-$\mathcal{L}$ terminates in polynomial time.

Exercise 34
In crisp $\mathcal{ALCH}$ (i.e. $\mathcal{ALC}$ extended with role inclusions) express that

a) Something that has a side effect also has an effect.

b) A thing’s side effect is at the same time that thing’s effect.

Exercise 35
Let $T$ be the TBox $T = \{ (\exists r. A \sqsupseteq A, 0.5) \}$. Using the translation to crisp $\mathcal{ALCH}$ from the lecture check whether $A \sqcap \forall r. \top$ is subsumed by $\exists r. (A \sqcup B)$ wrt $T$ to degree 0.5 when the semantics are restricted to witnessed models.