Problem 3.1
Consider the language $L(R, F, V)$, with $R = \{p/0, q/0\}$.
Given the set of formulas $S = \{p \leftarrow \neg q, q \leftarrow \neg p\}$.

1. Compute $C_{CWA}(S)$.
2. Compute the completion $C_C(S)$.

Problem 3.2
Give a logic program $P$ and its completion $C_C(P)$ such that the following holds:

$$\{\neg A | \neg A \in C(P)\} \neq \{\neg A | \neg A \in C_C(P)\}$$

(Justify your answer.)

Problem 3.3
Find non-stratisifiable programs $K_1$ and $K_2$ such that

- $C_C(K_1)$ is satisfiable, and
- $C_C(K_2)$ is unsatisfiable.