1. Aspects.
   • How do aspects support least privilege?
   • Do aspects have only to do with authentication or are they also have to do with authorization? (explain)
   • Give a set of example aspects and a possible ordering. Explain why this is reasonable.

2. Consider a milSec problem with levels unclassified and secret where secret has three compartments \{A\} \{B\}, \{A, B\}. Give the security card implementation.

3. Can any lattice model be implemented with Security Cards. If so, sketch how. If not, explain why not.

4. In the lecture notes, chinese wall was implemented by explicitly selecting a company. Another way of implementing chinese wall is to implicitly select the company by accessing files of that company. Show how to implement that with security cards.

5. Group management in Kernel Sec.
   • Describe all the information to create a group set where all user are in exactly one of group A, B, or C.
   • Describe all the information to create a group set with supervisors and workers, which are mutually exclusive and employees which contain both.


   \begin{align*}
   \text{requisition} & \bullet \text{ project – leader } \downarrow x \\
   \text{prepare} & \bullet \text{ clerk} \\
   \text{agree} & \bullet \text{ project – leader } \downarrow x \\
   \text{issue} & \bullet \text{ clerk}
   \end{align*}