Assignment 2

1. In each of the following situations, use combinations of GoF and GoV patterns to achieve the goals stated. In each case, provide a brief discussion on the potential deficiencies of your proposed solution:

- In a distributed system, multiple subsystems work with a common set of subsystems. The goal is to design the system so that location transparency is provided, and coupling is reduced among the subsystems so that the common subsystems can be changed and extended at runtime.

- A number of subsystems interact in a complex fashion. The interaction algorithm varies depending on the collective state of the subsystems. The goal is to design the system so that coupling is reduced among the subsystems and the interaction algorithm can be easily changed at runtime.

2. Study Chapter 4 of the POSA book (available on the course webpage). Then study: http://c2.com/cgi/wiki?JavaIdioms, and briefly introduce two Exception or Enumeration and Collection idioms that you have used in programming without knowing that they are actually idioms.