Exam Practice, Part 5

Med bakgrunn i din endelige løsning av kravspesifikasjonen, hvordan vil du si at designet og implementasjonen din er utført i henhold til design-prinsippene **kobling (eng: coupling)**, og **samstemthet (eng: cohesion)** ? Gi gjerne konkrete eksempler fra din egen kode.

Since there is a composition relationship between the property registry and the property (a registry couldn’t exist without the element that it registers), then there will exist some coupling. The function within the property class needs to be applicable in the registry; however, the opposite is does not necessarily have to be true. This composition relationship can be clearly seen by the one parameter taken in by the constructor, an ArrayList of Property Objects. Furthermore, coupling of these two classes can be seen through methods such as informationChange(…). In this method, input is taken in the main, passed to the PropertyRegister through an object, and then the setters in the Property class are used to alter the Property object variables’ information. Without the coupling created by the objects in the classes, this would not be possible. Still, there is only loose coupling, which allows for individual classes to be altered without necessarily having to change other classes.

Furthermore, since each class serves as a single concept within a bigger idea, there exists cohesion. The property registry represents a registry and therefore only has methods which are applicable to registries. Likewise, the Property class only has methods that can change a property and is relevant when discussing properties.