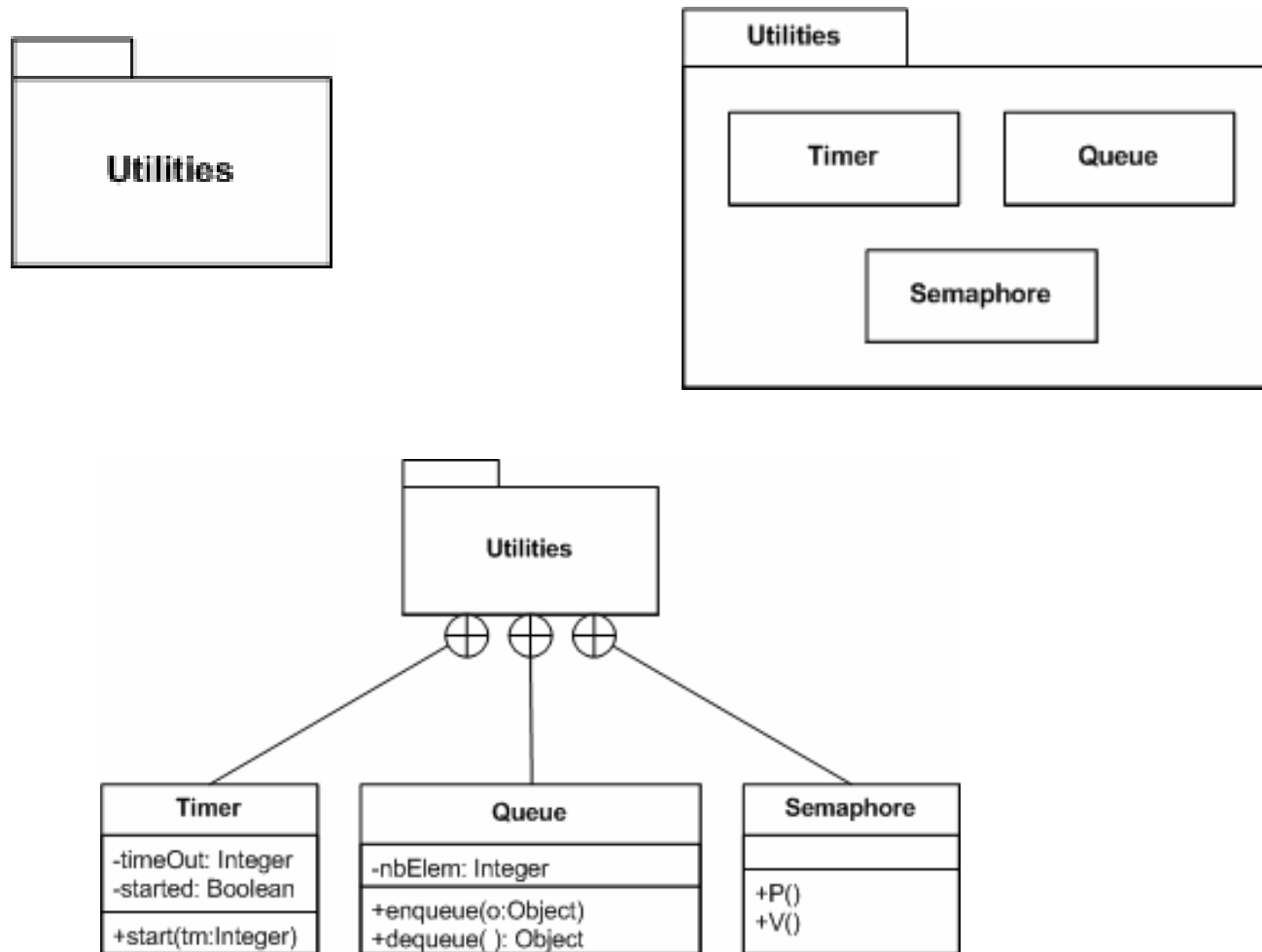


Package diagrams

Package

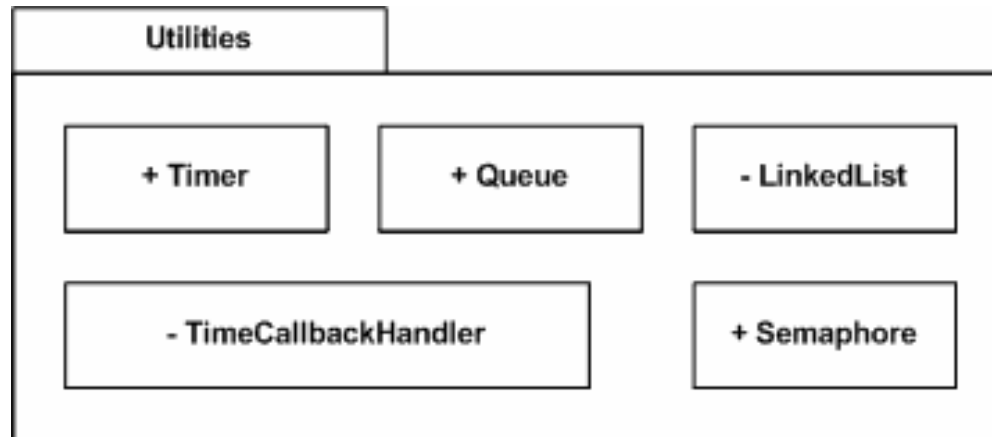
- **Package** = **Organizational** model elements.
 - Provides a way to group related UML elements
 - and scope their names (defines a namespace)
 - Contains **PackageableElements** (Class, Object, Event, Packages... are PackageableElements).
- Packages **cannot be instantiated** and can only be used to organize models.
- **Representation**
 - A package is denoted by a rectangle with a tab attached to the top left.
 - Example: the **Utilities** package below
 - **Utilities** is the name of the package
 - Each element in the package has a fully qualified name (e.g., **Utilities::Timer**).

Representations



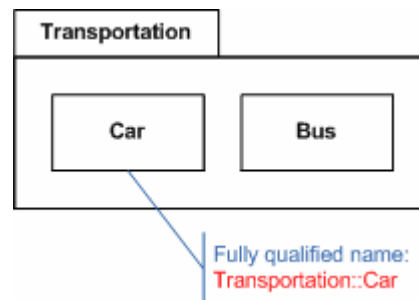
Visibility

- May specify visibility information for **owned** and **imported** elements (**public** or **private**)



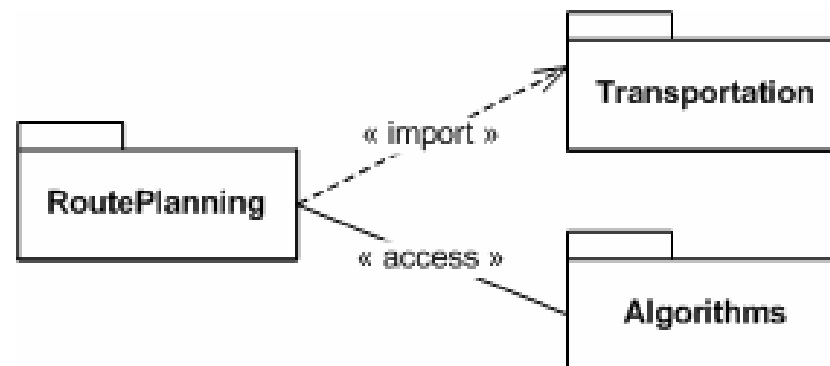
Importing & Accessing Packages

- When **accessing** elements in one package from a different package, you must qualify the name of the element you are accessing.



- To **simplify** accessing elements in a different package, UML allows a package to **import** another package. Imported elements are available without qualification in the importing package.
- By default, imported elements are public, but they can be given private visibility.

- «import»** vs. **«access»**



- «merge»** mainly for metamodeling.