

Assignment No. 5

The purpose of this assignment is to practice assertions and the proxy design pattern.

Exercise1:

Write a mechanism for asserting the contract and class invariant of the routing table implemented in assignment 3. The mechanism should support a way of turning on/off assertions at runtime. Follow the delegating proxy concept introduced in class. For your convenient, the implementation of the routing table that was introduced in class is available on the course web site.

Exercise2:

Use Java assertion facility for testing the contract, the class invariant and other internal invariant of the routing table implemented in assignment 3. Note that by default assertions are disabled. To explicitly enable them do the following:

- To tell the compiler to recognize assert statements :
Click Window->Preferences->Java->Compiler->Compliance and Classfiles, set "Compiler compliance level" to 1.4, uncheck "Use default compliance settings" and select 1.4 in the first two drop-down boxes below.
- To enable assertions at runtime:
Click Run -> Run... -> Arguments and in the "VM arguments" box, enter either "-enableassertions" or just "-ea".