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package edu.osu.cse421;

import java.util.logging.Logger;
import java.util.logging.Level;

public class Student {
    private static final Logger LOG = Logger.getLogger(Student.class.getName());

    private void m() {
        if (LOG.isLoggable(Level.FINER)) {
            LOG.entering(getClass().getName(), "m");
        }

        // implementation of m()

        if (LOG.isLoggable(Level.FINER)) {
            LOG.exiting(getClass().getName(), "m");
        }
    }

    public static void main(String[] args) {
        Student s = new Student();

        System.out.println("Default configuration "
            + "(won't print FINER messages)");
        Loggers.showLoggerTreeInfo(LOG);
        System.out.println("calling m()...");
        s.m();

        System.out.println("Modifying level of Student's LOG "
            + "(still won't print FINER messages)");
        LOG.setLevel(Level.FINER);
        Loggers.showLoggerTreeInfo(LOG);
        System.out.println("calling m()...");
        s.m();

        System.out.println("Modifying level of Root Handler");
        Logger.getLogger("").getHandlers()[0].setLevel(Level.ALL);
        Loggers.showLoggerTreeInfo(LOG);
        System.out.println("calling m()...");
        s.m();

        System.out.println("Creating a new logger, which becomes part "
            + "of the logging hierarchy");
        Logger.getLogger("edu.osu");
        Loggers.showLoggerTreeInfo(LOG);
    }
}
```