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/*
 * Scola Tutorial
 * by Antoine B. Rauzy
 * Electric-circuit with cloning
 */

block ElectricCircuit
    block PowerSource
        Boolean outPower true
    end
    block Switch1
        Boolean _closed true
        Boolean inPower false
        Boolean outPower false
        assertion Powering
            set outPower (if _closed inPower false)
        end
    end
    clones Switch1 as Switch2 end
    block Lamp
        Boolean inPower false
    end
    assertion Powering
        set Switch1.inPower PowerSource.outPower
        set Switch2.inPower Switch1.outPower
        set Lamp.inPower Switch2.outPower
    end
end

scenario Light as ElectricCircuit
    scenario Switch1Lane as Switch1
        state Initial
        task Switch
            set _closed (not _closed)
        end
        next Initial Switch
        next Switch Switch
    end
    clones Switch1Lane as Switch2Lane as Switch2 end
end
```