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1  /*
2  * Scola Tutorial
3  * by Antoine B. Rauzy
4  * Bridge in an object-oriented style
5  */
6
7  domain UnitState {WORKING, FAILED} end
8
9  class Unit(block)
10     UnitState _state WORKING
11     Boolean inFlow false
12     Boolean outFlow false
13     assertion Transfer
14         set outFlow (if (eq _state WORKING) inFlow false)
15     end
16 end
17
18 block System
19     block source
20         Boolean outFlow true
21     end
22     Unit A end
23     Unit B end
24     Unit C end
25     Unit D end
26     block target
27         Boolean inFlow false
28     end
29     assertion Transfer
30         set A.inFlow source.outFlow
31         set B.inFlow A.outFlow
32         set C.inFlow A.outFlow
33         set D.inFlow (or B.outFlow C.outFlow)
34         set target.inFlow D.outFlow
35     end
36 end
37
38 scenario SystemPool as System
39     scenario ALane as A
40         state Initial
41         task Failure
42             set _state FAILED
43         end
44         task Repair
45             set _state WORKING
46         end
47         next Initial Failure
48         next Failure Repair
49         next Repair Failure
50     end
51     clones ALane as BLane as B end
52     clones ALane as CLane as C end
53     clones ALane as DLane as D end
54 end
55

```