

```

1  /*
2  * Scola Tutorial
3  * by Antoine B. Rauzy
4  * 2-out-of-3 system
5  */
6
7  block System
8      block Component1
9          Boolean working true
10         end
11         block Component2
12             Boolean working true
13             end
14             block Component3
15                 Boolean working true
16                 end
17                 Boolean working true
18                 assertion Working
19                     set working (geq (count Component1.working Component2.working Component3.
20                     working) 2)
21                 end
22             end
23         end
24     scenario Operation as System
25         scenario Component1Lane as Component1
26             state Initial
27             task Failure
28                 set working false
29             end
30             state Terminal
31             next Initial Failure
32             next Failure Terminal
33         end
34         scenario Component2Lane as Component2
35             state Initial
36             task Failure
37                 set working false
38             end
39             state Terminal
40             next Initial Failure
41             next Failure Terminal
42         end
43         scenario Component3Lane as Component3
44             state Initial
45             task Failure
46                 set working false
47             end
48             state Terminal
49             next Initial Failure
50             next Failure Terminal
51         end
52     end

```