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1  /*
2  * Scola Tutorial
3  * by Antoine B. Rauzy
4  * Queues
5  */
6
7  block Shop
8      integer clientNumber 0
9      symbol clientName NONE
10     block Arrivals
11     end
12     block Queue1
13     end
14     block Queue2
15     end
16 end
17
18 scenario Service as Shop
19     scenario ClientArrival
20         state Initial
21         task NewClient
22             set clientNumber (add clientNumber 1)
23             set clientName (symbol (append "client" (string clientNumber)))
24             new block (append Arrivals (eval clientName))
25         end
26         choice QueueChoice
27             branch queue1
28             branch queue2
29         end
30         task ChooseQueue1
31             move (append Arrivals (eval clientName)) (append Queue1 (eval clientName))
32         end
33         task ChooseQueue2
34             move (append Arrivals (eval clientName)) (append Queue2 (eval clientName))
35         end
36         next Initial NewClient
37         next NewClient QueueChoice
38         next QueueChoice.queue1 ChooseQueue1
39         next QueueChoice.queue2 ChooseQueue2
40         next ChooseQueue1 NewClient
41         next ChooseQueue2 NewClient
42     end
43     scenario Queue1Work as Queue1
44         state Initial
45         task HandleClient
46             delete (element (symbol) 0)
47         end
48         next Initial HandleClient
49         next HandleClient HandleClient
50     end
51     scenario Queue2Work as Queue2
52         state Initial
53         task HandleClient
54             delete (element (symbol) 0)
55         end
56         next Initial HandleClient
57         next HandleClient HandleClient
58     end
59 end
60

```