State machine diagram with states s_0, s_1, and s_2.

- Transition from s_0 to s_1: $init:0/[r_1 := 0]$
- Self-loop on s_1: $coin:0/[r_1 := r_1 + 1]$
- Transition from s_1 to s_2: $vend:0[r_1 \geq 0]/o_1 := "tea"[r_1 := r_1]$