$$read:0[r_1 \neq r_3 \lor r_2 = NULL]/o_1 := "accessDenied"[r_1 := r_1, r_2 := r_2, r_3 := r_3] \\ read:0[r_1 = r_3, r_2 \neq NULL]/o_1 := r_2[r_1 := r_1, r_2 := r_2, r_3 := r_3] \\ write:1[r_3 \neq r_1]/o_1 := "accessDenied"[r_1 := r_1, r_2 := r_2, r_3 := r_3] \\ write:1/[r_1 := r_1, r_2 := r_1]$$

 $login:1/[r_1 := i_1, r_2 := r_2, r_3 := r_3]$ $logout:0/[r_1 := r_1, r_2 := r_2, r_3 := r_3]$