

MACHINE M1b

SEES C1

VARIABLES

reg
in
out

INVARIANTS

inv1 : $reg \subseteq USER$
inv2 : $in \subseteq reg$
inv3 : $out \subseteq reg$

EVENTS

INITIALISATION

BEGIN
act1 : $reg := \emptyset$
act2 : $in := \emptyset$
act3 : $out := \emptyset$

END

EVENT Register

ANY
u

WHERE
grd1 : $u \in USER$
grd2 : $u \notin reg$

THEN
act1 : $reg := reg \cup \{u\}$

END

EVENT Enter

ANY
u

WHERE
grd1 : $u \in out$

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THEN
   $act1 : in := in \cup \{u\}$ 
   $act2 : out := out \setminus \{u\}$ 
END

EVENT Leave

  ANY
     $u$ 

  WHERE
     $grd1 : u \in in$ 

  THEN
     $act2 : out := out \cup \{u\}$ 

  END

END

```