

PROCESS TYPE TGcd; (\* computation task \*)

ENTRY InitState(x, i : INTEGER);  
ENTRY AcceptMessage(m : INTEGER);  
ENTRY ReportState(VAR s : INTEGER);

VAR state, no, message : INTEGER;

BEGIN

(\* initialize \*)

ACCEPT InitState(x, i : INTEGER) DO BEGIN

state := x;  
no := i;  
END;

(\* main body \*)

REPEAT

SELECT

ACCEPT AcceptMessage(m : INTEGER) DO message := m;

(\* computation \*)

IF (state > message) THEN BEGIN  
state := ((state - 1) MOD message) + 1;  
TaskDistr[no].TakeMessage(state);  
END;

OR

ACCEPT ReportState(VAR s : INTEGER) DO s := state;

OR

TERMINATE;  
END;  
FOREVER;

END; (\* TGcd \*)