```
--algorithm AtomicBakery
\{ | \text{variable}_i, \text{num}_i = | [i_i \setminus \text{in}_i] \text{Procs}_i | ->_i 0 \}, \text{ } \text{flag}_i = | [i_i \setminus \text{in}_i] \text{Procs}_i | ->_i \text{FALSE} \};
process (p.\in.Procs)
||\cdot|| = ||\cdot||  variables ||\cdot|| = |\cdot| =
| | | | | | | | | { | | ncs: | | | while | | (TRUE)
____max__:=__0;
uuuuuuuuuuue2:uuuwhile,,(unchecked,,#,,{})
{}_{\square\square\square\square\square\square\square\square\square\square\square\square\square}\{{}_{\square}{\text{with}}_{\square}(i_{\square}\backslash in_{\square}{\text{unchecked}})
uuuuuuuuue4:uuuflag[self]u:=uFALSE;
uuuuuuuuuuuw1:uuuwhileu(uncheckedu#,,{})
uuuuuuuuuuuuuuuuuuuawaitu~uflag[nxt];
uuuuuuuuuuuuuuuuw2:uawaitu\/unum[nxt],=,0
uuuuuuuuu\/u<<num[self],uself>>
\prec_<\num[nxt],\unxt>>\u;
uuuuuuuuuucs:uuuskipu;uu\*utheucriticalusection;
uuuuuuuuuuexit:unum[self]u:=u0;
10000}
```