```
Towards the Bakery Algorithm – 1
process ( p \in Procs )
  variables unchecked, max = 0;
  { ncs: while (TRUE)
          { e1: unchecked := Procs \setminus \{self\};
             e2:
                  max := 0;
                   while ( unchecked \neq \{\} )
             e3:
                     { with (i \in unchecked)
                         { e4: unchecked := unchecked \setminus \{i\};
                            e5: if ( num[i] > max ) { max := num[i] }
                      };
                   with ( i \in \{j \in Nat : j > max\} ) { num[self] := i };
                   unchecked := Procs \setminus \{self\};
                   while ( unchecked \neq \{\} )
                     { with ( i \in unchecked )
                           { await \vee num[i] = 0
                                     \vee \langle num[self], self \rangle \prec \langle num[i], i \rangle;
                             unchecked := unchecked \setminus \{i\}
                      } ;
                   skip; the critical section;
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num[self] := 0;

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