The Big-Step Bakery Algorithm

```
--algorithm BigStepBakery
{  variable num = [i ∈ Procs ↦ 0] ;
   process ( pr ∈ Procs )
     variable unchecked = {} ;
     {  ncs: while ( TRUE )
              {  enter: with ( i ∈ {j ∈ Nat : ∀ q ∈ Procs : j > num[q]} )
                          {  num[self] := i  } ;
                        unchecked := Procs \ {self} ;
                 wait:  while ( unchecked ≠ {} )
                          {  with ( q ∈ unchecked )
                               {  await  ∨ num[q] = 0
                                         ∨ ⟨num[self], self⟩ ≺ ⟨num[q], q⟩ ;
                                  unchecked := unchecked \ {q}
                               }
                          } ;
                 cs:    skip ;      critical section
                 exit:  num[self] := 0
              }
     }
}
```

CLOSE