```
int turn[1:n] = ([n] 0);
## predicate BAKERY is a global invariant -- see text
process CS[i = 1 to n] {
  while (true) {
    ⟨turn[i] = max(turn[1:n]) + 1;⟩
    for [j = 1 to n st j != i]
      ⟨await (turn[j] == 0 or turn[i] < turn[j]);⟩
    critical section;
    turn[i] = 0;
    noncritical section;
  }
}
```

Figure 3.10 The bakery algorithm: Coarse-grained solution.