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.