```
int in[1:n] = ([n] 0), last[1:n] = ([n] 0);
process CS[i = 1 to n] {
  while (true) {
    for [j = 1 to n] {        /* entry protocol */
      /* remember process i is in stage j and is last */
      last[j] = i; in[i] = j;
      for [k = 1 to n st i != k] {
        /* wait if process k is in higher numbered stage
           and process i was the last to enter stage j */
        while (in[k] >= in[i] and last[j] == i) skip;
      }
    }
    critical section;
    in[i] = 0;                /* exit protocol */
    noncritical section;
  }
}
```

Figure 3.7 The **n**-process tie-breaker algorithm.