

```

bool in1 = false, in2 = false;
## MUTEX:  $\neg(\text{in1} \wedge \text{in2})$  -- global invariant
process CS1 {
  while (true) {
    <await (!in2) in1 = true;> /* entry */
    critical section;
    in1 = false;             /* exit */
    noncritical section;
  }
}
process CS2 {
  while (true) {
    <await (!in1) in2 = true;> /* entry */
    critical section;
    in2 = false;           /* exit */
    noncritical section;
  }
}

```

**Figure 3.1** Critical section problem: Coarse-grained solution.