```
boolean flag [2];
int turn;
void P0()
{
     while (true) {
          flag [0] = true;
          while (flag [1]) {
               if (turn == 1) {
                    flag [0] = false;
                    while (turn == 1) /* do nothing
*/;
                    flag [0] = true;
               }
          }
          /* critical section  */;
          turn = 1;
          flag [0] = false;
          /* remainder   */;
     }
}
void P1( )
{
     while (true) {
          flag [1] = true;
          while (flag [0]) {
               if (turn == 0) {
                    flag [1] = false;
                    while (turn == 0) /* do nothing
*/;
                    flag [1] = true;
               }
          }
          /* critical section   */;
          turn = 0;
          flag [1] = false;
          /* remainder   */;
     }
}
void main ()
{
     flag [0] = false;
     flag [1] = false;
     turn = 1;
     parbegin (P0, P1);
}
```

Figure 5.2 Dekker's Algorithm