```
do{
                                                   L=0
 lock();
                                           [L!=0]
 old = new;
                                        ERR
 if(*){
                                                     .old=new
   unlock:
    new++;
                                           L=0:
                                                             new!=old1
                                           new+-
 while (new != old);
                                                      [new==old]
(a) program fragment
                                         (b) control-flow graph
```

Fig. 1. A simple example program