```
do{
  lock();
  old = new;
  if(*){
    unlock;
    new++;
  }
} while (new != old);
```
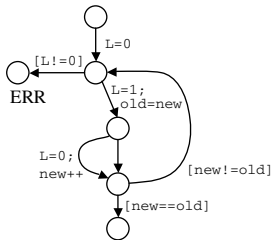
(a) program fragment

(b) control-flow graph

**Fig. 1.** A simple example program