

```
1 semaphore mutex = 1;
2 semaphore noOther = 1;
3 semaphore turnstile = 1;
4 int readers = 0;
5
6 void writer(void)
7 {
8     while (TRUE) {
9         turnstile.wait();
10        wait(&noOther);
11        writing();
12        signal(&noOther);
13        turnstile.signal();
14    }
15 }
```

```
1 void reader(void)
2 {
3     while (TRUE) {
4         turnstile.wait();
5         turnstile.signal();
6
7         wait(&mutex);
8         readers++;
9         if (readers == 1)
10             wait(&noOther);
11         signal(&mutex);
12         reading();
13         wait(&mutex);
14         readers--;
15         if (readers == 0)
16             signal(&noOther);
17         signal(&mutex);
18         anything();
19     }
20 }
```