```
do
    write_count++; // change this
    wait(rw_mutex);
 * writing is done here */
    write_count--; // change this
    signal(rw_mutex);
}while(true);
do
    wait(mutex);
    if(write_count == 1) // chanage this
    exit(); //change
    read_count++;
    if(read_count == 1)
    wait(rw_mutex);
    signal(mutex);
    /* reading is done here */
    wait(mutex);
    read_count--;
    if (read_count == 0)
    signal(rw_mutex);
    signal(mutex);
}while(true);
```

## 2.

Atomic operations are usable in the kernel. The Unix kernel provides the atomic\_t type to make this possible. Another example is using lock files. When one editor is working on a file, it generates a lock file. This prevents other form editing it.