Readers and Writers: Monitor Solution

Variables:

```
Lock L
Cond cv-readers
int readers = 0
Cond cv-writers;
int writers = 0;
```

```
write()
```

```
L->acquire();
writers ++;
while (writers > 0)
   CV-writers->Wait();
if (writers == 0) 
   writers --
   CV-writers->Signal();
else
   CV-writers->broadcast();
L->release();
```

```
read()
```

```
L->acquire();
readers ++;
L->release();
L->acquire();
readers --;
if (readers == 0) {
   CV-reader->Signal();
}
L->release();
```