Starvation-free reader writers problem

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This repo contains pseudocode for starvation free reader writer problem implemented for assignment of CSN-232: Operating Systems

Documentation

Global Variables:

• Readers algorithm pseudocode:

```
Wait(orderMutex);
                            // Remember our order of arrival
Wait(readersMutex);
                           // We will manipulate the readers counter
if (readers == 0)
                           // If there are currently no readers (we came first)...
 Wait(accessMutex);
                           // ...requests exclusive access to the resource for readers
readers++;
                           // Note that there is now one more reader
                           // Release order of arrival semaphore (we have been served)
Signal(orderMutex);
                           // We are done accessing the number of readers for now
Signal(readersMutex);
ReadResource();
                            // Here the reader can read the resource at will
Wait(readersMutex);
                           // We will manipulate the readers counter
                           // We are leaving, there is one less reader
readers--;
if (readers == 0)
                           // If there are no more readers currently reading...
 Signal(accessMutex);
                           // ...release exclusive access to the resource
Signal(readersMutex);
                           // We are done accessing the number of readers for now
```

• Writers algorithm pseudocode:

