

Operating Systems CSC 341/641

Implement Ricart and Agrawala's algorithm for mutual exclusion in computer networks with the following specifications:

- the critical section (CS) is a print server process.
 - displays lines as received by a node process
- communication among nodes and CS process is done through the network
- nodes know the number of processes that are competing for the use of the CS
- nodes execute identical code and there must be at least 4 nodes running, and each execute with the command line:

```
%node i // where i is the node number
```

- nodes send a "header" line:

```
##### START OUTPUT FOR NODE i #####
```

then it sends one line at a time to the network, so if "N" lines must be printed, N messages must be sent. Each line must be preceded by the node number.

and finally a "footer line":

```
----- END OUTPUT FOR NODE i -----
```

create a "Hacker" node which does not participate in the algorithm but uses the CS

extra credit:

- accept new nodes
- timeout for failing nodes

