MSc. Computer Science Sem – III AOS

Assignment 2

GROUP C:

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Link to the executable code

https://github.com/snigdhadip99/Msc 3rd-Sem AOS/blob/main/Ricart-Agarwala.py

Data Sets

The program takes the number of nodes as input at run time
 Enter number of nodes: 3

Screenshots

```
c:/Users/KANKANA GHOSH/AppData/Local/Programs/Python/Python38/AOS prac/Ricart-Agarwala.py"
enter number of nodes: 3
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 2:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1:
Node 2:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 2:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 2:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 2:
                        free (local timestamp: 0) (approved by: 0 nodes)
                  Requesting (local timestamp: 0) (approved by: 0 nodes)
Node 0:
Node 1:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 2:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 0:
         IN CRITICAL SECTION (local timestamp: 0) (approved by: 2 nodes)
Node 1:
                  Requesting (local timestamp: 2) (approved by: 1 nodes)
Node 2:
                  Requesting (local timestamp: 4) (approved by: 0 nodes)
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1:
         IN CRITICAL SECTION (local timestamp: 2) (approved by: 2 nodes)
Node 2:
                  Requesting (local timestamp: 4) (approved by: 1 nodes)
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1: IN CRITICAL SECTION (local timestamp: 2) (approved by: 2 nodes)
Node 2:
                  Requesting (local timestamp: 4) (approved by: 1 nodes)
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 0:
Node
                        free (local timestamp:
                                               2) (approved by: 0 nodes)
     1:
Node 2: IN CRITICAL SECTION (local timestamp: 4) (approved by: 2 nodes)
```

```
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1:
                        free (local timestamp: 2) (approved by:
                                                                0 nodes)
Node 2:
         IN CRITICAL SECTION (local timestamp: 4) (approved by:
                                                                 2 nodes)
Node 0:
                        free (local timestamp: 0) (approved by: 0 nodes)
Node 1:
                  Requesting (local timestamp: 7) (approved by: 0 nodes)
Node
                        free (local timestamp: 4) (approved by:
     2:
                                                                0 nodes)
Node
                  Requesting (local timestamp: 9) (approved by: 1 nodes)
Node
         IN CRITICAL SECTION (local timestamp: 7) (approved by:
                                                                2 nodes)
     1:
Node 2:
                        free (local timestamp:
                                               4) (approved by:
                                                                0 nodes)
Node 0:
         IN CRITICAL SECTION (local timestamp: 9) (approved by: 2 nodes)
Node 1:
                        free (local timestamp: 7) (approved by: 0 nodes)
Node 2:
                        free (local timestamp: 4) (approved by: 0 nodes)
Node 0:
         IN CRITICAL SECTION (local timestamp: 9) (approved by:
                                                                2 nodes)
Node 1:
                        free (local timestamp: 7) (approved by: 0 nodes)
Node 2:
                  Requesting (local timestamp: 11) (approved by: 1 nodes)
Node
     0:
                        done (local timestamp: 9) (approved by: 0 nodes)
Node
                        free (local timestamp: 7) (approved by:
     1:
                                                                0 nodes)
Node 2:
         IN CRITICAL SECTION (local timestamp: 11) (approved by:
                                                                2 nodes)
Node 0:
                        done (local timestamp: 9) (approved by: 0 nodes)
Node 1:
                  Requesting (local timestamp: 13) (approved by: 1 nodes)
Node 2:
                        done (local timestamp: 11) (approved by: 0 nodes)
Node 0:
                        done (local timestamp: 9) (approved by: 0 nodes)
Node 1: IN CRITICAL SECTION (local timestamp: 13) (approved by: 2 nodes)
Node 2:
                        done (local timestamp: 11) (approved by: 0 nodes)
```