Assignment 0324

This assignment seeks to reinforce some of the activities we’ve done in class so far. It also gives you a chance to try your hand at working out a general critical section solution on your own before we look at some established ones in class.

Not for Submission

The material covered so far is based on Chapters 5 and 6 in SGG.

For Submission

Critical Section Exploration

Consider the critical section problem that has been presented in class, and the proposed structure for a general solution. Try to fill in this structure with a C solution of your own; remember that this solution has to have the three properties of mutual exclusion, progress, and bounded waiting.

Submit your proposed solution on hardcopy.

Exercises

Do the following exercises from SGG: 5.1, 5.2, 5.3, 5.5, 5.11, 5.12, 5.13, 5.14, 5.15, 5.18.

Submit your answers on hardcopy.