

ECE 151
Assignment 3
Due Monday May 1

1. a) Describe and compare the centralized algorithm for mutual exclusion using a coordinator, with the distributed mutual exclusion algorithm of Ricart and Agrawala.

b) Explain how each of the two algorithms ensures mutual exclusion when two processes request entry to the critical region at approximately the same time.

b) How do the algorithms compare in performance, and in load on the various processors and on the communication medium, under fault free conditions?

c) How do the algorithms compare when there is a faulty processor in the system? For each algorithm, how would you handle such a fault?