Deadlocks

Review Questions

Section 7.1

7.1 True or False? The system model for deadlocks first requires a process request a resource, then use the resource, and finally release the resource.

Section 7.2

7.2 What are the four necessary conditions for characterizing deadlock?

Section 7.3

7.3 Describe one strategy for dealing with deadlocks.

Section 7.4

7.4 What is the only reasonable condition that can be used to prevent deadlocks from occurring?

Section 7.5

7.5 What is the name of the state of the system if resources can be allocated to all processes in some order and deadlock can still be avoided?

7.6 What is the name of the classic deadlock avoidance algorithm?

Section 7.6

7.7 True or False? The wait-for graph can only be used for deadlock detection when there is a single instance of each type.

Section 7.7

7.8 Provide at least one method for recovering from deadlock.