执行测验: 第7章 死锁 作业

测试信息

描述	
说明	
多次尝试	此测试允许进行多次尝试。
强制完成	本测试可保存并可稍后继续。

问题完成状态:

问题 1 10 分 保存答案

Consider the following snapshot of a system:

	Allocation	*Max*	*Available*
	A B C D	*A B CD*	*A B C D*
P_0	0 0 1 2	0 0 1 2	1 5 2 0
P_1	1 0 0 0	1 7 5 0	
P_2	1 3 5 4	2 3 5 6	
P_3	0 6 3 2	0 6 5 2	
P_4	0 0 1 4	0 6 5 6	

Answer the following questions using the banker's algorithm:

a. What is the content of the matrix *Need?*

b. Is the system in a safe state?

c. If a request from process P1 arrives for (0,4,2,0), can the request be granted immediately?

单击"保存并提交"以保存并提交。单击"保存所有答案"以保存所有答案。

Mashups HTML CSS

路径: p 字数:0

问题 2 4 分 已保存

For operating systems, deadlock means _____.

- A. processes are blocked and wait for each other to finish
- B. hardware malfunctions
- C. system halts
- D. A program is looping forever

问题 3 4 分 已保存

The deadlock prevention is a set of methods for ensuring that at least one of the necessary conditions of deadlock can not be held. In the following methods, which one breaks the "Circular Wait" condition.

- A. Each process request resources in the ascending order of resource ID number.
- B. Banker's Algorithm
- C. Each process request and be allocated all its resources before it begins execution
- D. none of the above

问题 4 4 分 已保存

Which of the following is not a necessary condition of deadlock?

- A. Hold and wait
- B. Number of resources
- C. Mutual exclusion
- D. Circular wait

问题 5 4 分 已保存

A system has 3 concurrent processes, each of which requires 4 items of resource R. What is the minimum number of resource R in order to avoid the deadlock.

- A. 12
- B. 10
- C. 9
- D. 11

问题 6 4 分 已保存

Assume that a system has 9 instances of 1 resource type shared by 4 processes. How many resource instances can a process be allowed to request in order to avoid deadlock?

- A. 3
- B. 1
- C. 2
- D. 4

问题 7 4 分 已保存

There are N processes which share M mutual exclusive resources, each process can hold W resources at most. Which of the following condition may cause a deadlock?

- A. M=2, N=1, W=2
- B. M=4, N=3, W=2
- C. M=4, N=2, W=3
- D. M=2, N=2, W=1

问题 8 4 分 已保存

A system is in a deadlock, if its resource allocation graph _____.

- A. contains a cycle and there is just one instance of every resource
- B. doesn't contain a cycle
- C. contains a cycle
- D. has at least one outgoing edge from any one of the process nodes

问题 9 4 分 已保存

Banker's algorithm is one of _____ algorithm。

- A. deadlock avoidance
- B. deadlock prevention
- C. deadlock recovery
- D. deadlock detection

问题 10 4 分 已保存

Which of the following operating system uses Banker's Algorithm to perform deadlock avoidance?

- A. Windows 10
- B. Linux
- C. None of the above
- D. Mac OS

问题 11 4 分 已保存

Which of the following phenomena is not a kind of deadlock?

- A. Two trains traveling toward each other in the same track
- B. A person is going down a ladder while another is climbing up the ladder
- C. A car cannot move forward because a bridge is damaged.
- D. Two cars crossing a single-lane bridge form opposite directions