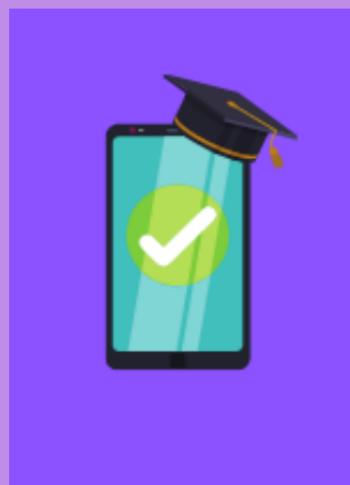


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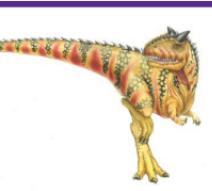
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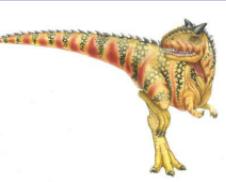
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< Deadlocks

< view slide



Chapter 7: Deadlocks

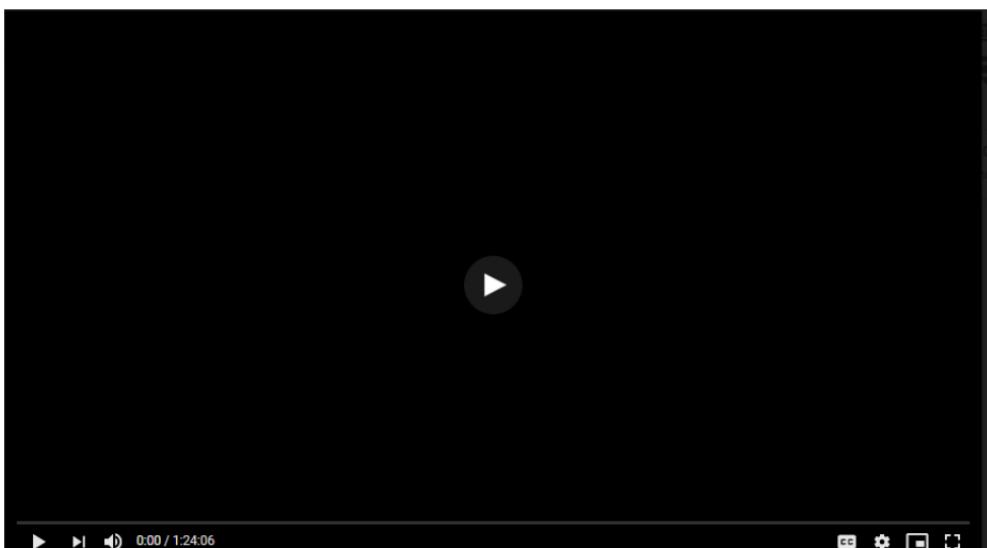


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< Questions

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Semester



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Tutorial 1(2017)

Tutorial 2(2017)

Tutorial 3(2017)

Tutorial 1(2016)

Tutorial 2(2016)

Tutorial 3(2016)

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< Semester

Year 2019

Year 2018

Year 2017

Year 2016

Year 2015

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< Deadlock

2. Answer the following questions related to deadlocks.

(a) (5 points) Consider a system consisting of four processes and a single resource. The current states of the claim and allocation matrices are as follows.

$$C = \begin{bmatrix} 3 \\ 2 \\ 3 \\ 11 \end{bmatrix} \quad A(t) = \begin{bmatrix} 1 \\ 1 \\ 3 \\ 2 \end{bmatrix}$$

What is the minimum number of units of the resource needed to be available for this state to be safe?

(b) (10 points) Let P_0, P_1, P_2, P_3 , and P_4 denote five processes, and R_0, R_1, R_2 , and R_3 denote four system resources. At some time t the snapshot of the system is as follows.

The claim matrix C is

$$C = \begin{bmatrix} & R_0 & R_1 & R_2 & R_3 \\ P_0 & 0 & 8 & 5 & 2 \\ P_1 & 1 & 6 & 4 & 2 \\ P_2 & 0 & 3 & 5 & 0 \\ P_3 & 3 & 1 & 2 & 2 \\ P_4 & 1 & 5 & 4 & 6 \end{bmatrix}$$

The current allocation of resources to the processes is given by the allocation matrix $A(t)$ as

$$A(t) = \begin{bmatrix} & R_0 & R_1 & R_2 & R_3 \\ P_0 & 0 & 4 & 3 & 1 \\ P_1 & 1 & 1 & 1 & 0 \\ P_2 & 0 & 1 & 2 & 0 \\ P_3 & 3 & 1 & 2 & 1 \\ P_4 & 0 & 1 & 2 & 3 \end{bmatrix}$$

The available number of resources based on the current allocation is

$$V(t) = \begin{bmatrix} R_0 & R_1 & R_2 & R_3 \\ 0 & 2 & 1 & 1 \end{bmatrix}$$

Answer the following questions.

- Is the system in a safe state at time t ? If so, show a safe order in which all the processes can run to completion.
- Use the Banker's algorithm to determine if a request of $(0, 1, 1, 0)$ for (R_0, R_1, R_2, R_3) , made by process P_2 , can be granted safely without a possible deadlock.

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< Tutorial 1(2017)

2. Answer the following questions related to deadlocks.

(a) (5 points) Consider a system consisting of four processes and a single resource. The current states of the claim and allocation matrices are as follows.

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The current allocation of resources to the processes is given by the allocation matrix $A(t)$ as

$$A(t) = \begin{bmatrix} & R_0 & R_1 & R_2 & R_3 \\ P_0 & 0 & 4 & 3 & 1 \\ P_1 & 1 & 1 & 1 & 0 \\ P_2 & 0 & 1 & 2 & 0 \\ P_3 & 3 & 1 & 2 & 1 \\ P_4 & 0 & 1 & 2 & 3 \end{bmatrix}$$

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< Year (2017)

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< Practise Exam

Deadlock

Main memory

Process

Threads

I/O Systems

Virtual Memory

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COV-19 EXAM

< Deadlock

Duration:30 min
Ends in: 22.20

1. Memory consists of a large array of words or bytes each with its own.....

- space
- length
- address

2. Memory consists of a large array of words or bytes each with its own.....

- space
- length
- address

3. Memory consists of a large array of words or bytes each with its own.....

- space
- length
- address

Submit

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< Deadlock

Analysis Report

Obtained Marks: 22/30

Highest Marks: 29

Level: MEDIUM

1. Memory consists of a large array of words or bytes each with its own.....

- space
- length
- address

2. Memory consists of a large array of words or bytes each with its own.....

- space
- length
- address

3. Memory consists of a large array of words or bytes each with its own.....

- space
- length
- address

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< Discussion forum



311_Rakib

Hey have anyone have
prblem on deadlock?

I have. Can we discuss
on it?

401_Ishtiyak

I have also. which slide
are reading now?

5.



12.30

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< Teacher's list

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< View Profile



Mr. X

Username: mr_x123

Subject Name: OOP

Phone: xxxxxxxx

Email ID: mr_x123@gmail.com

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**For some
unavoidable
reason
Tomorrow's
Lab
Cancelled**



12.30

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Intelligence

Biomedical

Virtual
Reality

Teleportation

Robotics

Gadgets

Machine
Learning

Turtle
Programming



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< Artificial Intelligence

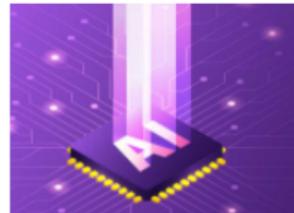
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Mr. X

Username: mr_x123

Subject Name: OOP

Phone: xxxxxxxx

Email ID: mr_x123@gmail.com

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< Inbox



311_Rakib

Sir , I was sick last day .
So, I was absent

It's okey. Give the exam
when you feel better.

401_Ishtiyak

Sir, I have some question
on last day topic

Okey. Remind me in the
class . I will explain.

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< upload question

Topic Wise

Tutorial

Semester



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COV-19 EXAM

< Topicwise

Deadlock

Main memory

Process

Threads

I/O Systems

Virtual Memory

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Deadlock

Q1. Consider the following resource allocation diagram:

Resource Allocation Diagram:

| Process | R1 | R2 | R3 | R4 | R5 |
|---------|----|----|----|----|----|
| P1 | 1 | 0 | 0 | 0 | 0 |
| P2 | 0 | 1 | 0 | 0 | 0 |
| P3 | 0 | 0 | 1 | 0 | 0 |
| P4 | 0 | 0 | 0 | 1 | 0 |
| P5 | 0 | 0 | 0 | 0 | 1 |

The system is in a deadlock state. Which of the following processes can be terminated to resolve the deadlock?

A) P1
B) P2
C) P3
D) P4
E) P5

Q2. Consider the following resource allocation diagram:

Resource Allocation Diagram:

| Process | R1 | R2 | R3 | R4 | R5 |
|---------|----|----|----|----|----|
| P1 | 1 | 0 | 0 | 0 | 0 |
| P2 | 0 | 1 | 0 | 0 | 0 |
| P3 | 0 | 0 | 1 | 0 | 0 |
| P4 | 0 | 0 | 0 | 1 | 0 |
| P5 | 0 | 0 | 0 | 0 | 1 |

The system is in a deadlock state. Which of the following processes can be terminated to resolve the deadlock?

A) P1
B) P2
C) P3
D) P4
E) P5

Q3. Consider the following resource allocation diagram:

Resource Allocation Diagram:

| Process | R1 | R2 | R3 | R4 | R5 |
|---------|----|----|----|----|----|
| P1 | 1 | 0 | 0 | 0 | 0 |
| P2 | 0 | 1 | 0 | 0 | 0 |
| P3 | 0 | 0 | 1 | 0 | 0 |
| P4 | 0 | 0 | 0 | 1 | 0 |
| P5 | 0 | 0 | 0 | 0 | 1 |

The system is in a deadlock state. Which of the following processes can be terminated to resolve the deadlock?

A) P1
B) P2
C) P3
D) P4
E) P5





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< View Level

| Name | Level |
|------|-------|
|------|-------|

| | |
|--------------|------|
| Ranuma Begum | Best |
|--------------|------|

| | |
|--------------|-------|
| Ranuma Begum | worst |
|--------------|-------|

| | |
|--------------|------|
| Ranuma Begum | Best |
|--------------|------|

| | |
|--------------|-------|
| Ranuma Begum | worst |
|--------------|-------|

| | |
|--------------|------|
| Ranuma Begum | Best |
|--------------|------|

| | |
|--------------|--------|
| Ranuma Begum | Medium |
|--------------|--------|

| | |
|--------------|------|
| Ranuma Begum | Best |
|--------------|------|

| | |
|--------------|--------|
| Ranuma Begum | Medium |
|--------------|--------|

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< Attendence

| ID | Name | Attendence |
|-----|--------------|-------------------------------------|
| 301 | Ranuma Begum | <input type="checkbox"/> |
| | | <input checked="" type="checkbox"/> |
| 301 | Ranuma Begum | <input checked="" type="checkbox"/> |
| 301 | Ranuma Begum | <input type="checkbox"/> |
| 301 | Ranuma Begum | <input checked="" type="checkbox"/> |
| 301 | Ranuma Begum | <input checked="" type="checkbox"/> |
| 301 | Ranuma Begum | <input type="checkbox"/> |
| 301 | Ranuma Begum | <input checked="" type="checkbox"/> |

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< Write notice

For some
unavoidable
reason
Tomorrow's
Lab
Cancelled

notify all