Started on Tuesday, 26 November 2019, 11:59 AM

State Finished

Completed on Tuesday, 26 November 2019, 12:45 PM

Time taken 45 mins 59 secs

**Grade 99.81** out of 100.00

Information

## **True and False questions**

Question **1**Correct
Mark 20.00 out

of 20.00

The main benefit of Gang scheduling is to reduce the overhead when executing a set of related threads

Select one:

- True
- False

Information

## **Simple Choice Questions**

Question **2**Correct

Mark 20.00 out

of 20.00

Select the RAID level that does NOT include redundancy

Select one:

- a. RAID 3
- b. RAID 2
- c. RAID 6
- d. RAID 1
- e. RAID 0
- f. RAID 4

Information

## Given the following process table:

 Process
 A
 B
 C
 D

 Tarrival
 0
 1
 2
 3

 T<sub>service</sub>
 2
 3
 4
 1

## **Complete the following tables:**



 $T_r/T_s$ 



1.33



Information

Execute the page replacement algorithms FIFO, LRU, and Clock for a system with 3 frames and the following string of page references:

7

1.75

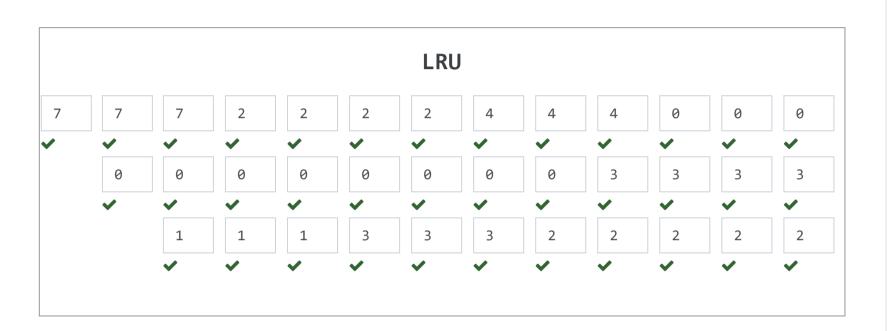
Page references: 7,0,1,2,0,3,0,4,2,3,0,3,2

Question **6**Partially correct

Mark 6.81 out of 7.00



Question **7**Correct
Mark 7.00 out of 7.00



Question **8**Correct

Mark 7.00 out of 7.00

Use 1 after the page number (without white space) to represent that the use bit is enabled and a 0 (without white space) to represent that the used bit is disabled.

Example: 70 represents page 7 with the use bit equal to zero

CLO	CK											
71	71	71	21	21	21	21	41	41	41	40	31	31
<b>~</b>	~	~	<b>~</b>	~	~	~	~	~	~	~	~	~
	01	01	00	01	00	01	00	21	21	20	20	21
	<b>~</b>	~	~	~	~	~	~	~	~	~	~	~
		11	10	10	31	31	30	30	31	01	01	01
		~	~	~	~	~	~	~	~	~	~	~

Information

Consider a 32-bit file system and a 4 K-byte block size with an inode format that has 12 blocks for direct access, 1 block for single indirect access, 1 block for double indirect access. Calculate the following parameters:

Question <b>9</b> Correct	Direct level capacity in I	K-byte						
Mark 2.00 out of 2.00	Answer: 48	<b>~</b>						
Question <b>10</b>	Number of blocks avails	able of the first level of indirec	ion (you cannot sim	plify your answer by us	ing the information units			
Correct	K, M, and G):							
Mark 2.00 out of 2.00								
	Answer: 1024							
Question <b>11</b>	Number of blocks of th	e second level of indirection (y	ou cannot simplify y	our answer by using the	e information units K. M.			
Correct	and G):	e second level of manection (y	od carmot simplify y	our answer by using the	, information units it, ivi,			
Mark 2.00 out of 2.00								
	Answer: 1048576	~						
→ Programming	Assignment 3	Jump to						