12/5/23, 8:18 PM Quiz 5

① Students have either already taken or started taking this quiz, so take care when editing it. If you change any quiz questions in a significant way, you might want to consider re-grading students' quizzes who took the old version of the quiz.

	Points 8 Published
<u>Details</u> Questions	
✓ Show question details	
iii Question	1 pt
Which of the following information about a file is NOT contained in the inode:	
er	
file data block addresses	
owner of the file	
access/modify times	
whether it is a directory or regular file	
<b>∷</b> Question	1 pt
number of direct pointers in inode = 14	
number of direct pointers in inode = 14 size of a pointer = 4 bytes.  If inode also has one indirect pointer, what is the largest file that has be stored in the disk?	
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size of a pointer = 4 bytes.  If inode also has one indirect pointer, what is the largest file that has be stored in the disk?  -270 KB  -4.1 MB  -4.5 GB  -1.3 MB  -140 KB     Question    When the following system call is executed by the OS:    Open("/home/user/file.txt", O_RDONLY)	1 pt
size of a pointer = 4 bytes.  If inode also has one indirect pointer, what is the largest file that has be stored in the disk?	1 pt

4 inodes, 1 data block

1 inode, 3 data blocks

1 inode, 1 data block

**Question** 1 pts The following is an example of redundancy through mirroring: 1 2 1 2 4 3 3 4 5 5 6 6 7 7 8 8 Disk 1 Disk 2 Disk 3 Disk4 The loss of which pair of disks will cause it to fail? ıswer Oisks 1 and 2 Oisks 1 and 3 Disks 1 and 4 Disks 2 and 3 Disks 2 and 4

	Question	Question						
	The only problem	ı with RAID level	4 (shown in the	figure) is:				
	Disk 0	Disk 1	Disk 2	Disk 3	Disk 4			
	0	1	2	3	P0			
	4	5	6	7	P1			
	8	9	10	11	P2			
	12	13	14	15	P3			
ıswer	<ul><li>Random wr</li></ul>	rites are slow due t	o bottleneck of pari	ity update				
	O Capacity is worst							
	<ul><li>Steady stat</li></ul>	e writing is slow du	ie to bottleneck of p	parity update				
	<ul><li>Steady stat</li></ul>	e reading is slow d	ue to bottleneck of	parity update				
	Random reading is slow due to bottleneck of parity update							

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wer	To isolate and protect processes from each other.					
	To optimize CPU clock speeds for better performance					
	To control the physical memory allocation of a computer					
	To enhance the graphical user interface (GUI) of the operating system					
	□ Question     □ Question	1 pts				
	Which of the following process state transitions is NOT possible?					
er	Ready to Waiting					
	Running to Ready					
	Running to Waiting					
	○ Waiting to Ready					
	○ Ready to Running					
	# Question	1 pts				
	In a Unix-like operating system, which of the following best describes the behavior of the fork() and wait() system calls?	<b>%</b> >				
swer	O fork() creates a new child process, and wait() suspends the parent process until the child process completes					
	ofork() suspends the current process, and wait() creates a new child process.					
	O fork() terminates the current process, and wait() resumes it after a child process completes.					
	of fork() creates a new child process, and wait() continues the execution of the parent process concurrently with the child process.					
	+ New question   + New question group   Q Find questions					
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