### File System Data Structures

**Due** Nov 19, 2019 at 11:59pm **Points** 12 **Questions** 7

Time Limit None Allowed Attempts Unlimited

This quiz is no longer available as the course has been concluded.

### **Attempt History**

LATEST Attempt 1 13 minutes 12 out of 12		Attempt	Time	Score
	LATEST	Attempt 1	13 minutes	12 out of 12

Score for this attempt: **12** out of 12 Submitted Nov 18, 2019 at 8:43pm This attempt took 13 minutes.

Question 1	2 / 2 pts
Assume the initial state of the file system is:	
inode bitmap 10000000 inodes [d a:0 r:2] [] [] [] [] [] [] data bitmap 10000000 data [(.,0) (,0)] [] [] [] [] [] []	
If the file system transitions to:	
inode bitmap 11000000 inodes [d a:0 r:3] [d a:1 r:2] [] [] [] [] [] [] data bitmap 11000000 data [(.,0) (.,0) (t,1)] [(.,1) (.,0)] [] [] [] [] [] []	
What operation must have been performed?	
create("/t");	
fd=open("/t"); write(fd);	

	○ link("/t", "/");
Correct!	mkdir("/t");

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	create("/t/c");
prrect!	<pre>link("/y", "/t/c");</pre>
	○ link("/y", "/c");
	create("/c");

# 2 / 2 pts **Question 4** What operation must be performed next for the file system to transition to: inode bitmap 11100000 inodes [d a:0 r:4] [d a:1 r:3] [f a:2 r:2] [] [] [] [] data bitmap 11100000 data [(.,0) (..,0) (t,1) (y,2)] [(.,1) (..,0) (c,2)] [o] [] [] [] [] Correct! fd=open("/t/c"); write(fd); fd=open("/t/y"); write(fd); link("/t", "/t/c"); create("/t/c"); mkdir("/t/c");

#### 1 / 1 pts **Question 5**

What operation must be performed next for the file system to transition to:

	inode bitmap 11110000 inodes [d a:0 r:5] [d a:1 r:3] [f a:2 r:2] [d a:3 r:2] [] [] [] [] data bitmap 11110000 data [(.,0) (.,0) (t,1) (y,2) (v,3)] [(.,1) (.,0) (c,2)] [o] [(.,3) (.,0)] [] [] [] []
	○ create("/v");
	○ link("/", "/v");
	<pre>fd=open("/y"); write(fd);</pre>
Correct!	mkdir("/v");

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Question 7 2 / 2 pts

	What operation must be performed next for the file system to transition to:
	inode bitmap 11111000 inodes [d a:0 r:6] [d a:1 r:2] [f a:2 r:1] [d a:3 r:2] [d a:4 r:2] [] [] [] data bitmap 11111000 data [(.,0) (.,0) (t,1) (y,2) (v,3) (j,4)] [(.,1) (.,0)] [o] [(.,3) (.,0)] [(.,4) (.,0)] [] [] []
	omkdir("/t");
	create("/t/c");
	ounlink("/t");
Correct!	unlink("/t/c");

Quiz Score: 12 out of 12