| Cuestions    Question  |              |  | Points 12 | Published |
|--|--------------|--|-----------|-----------|
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| <ul> <li>head /etc/passwd</li> <li>tail /etc/passwd</li> <li>cat /etc/passwd   tail -20</li> </ul>   | Which        | h of the following commands will print the first 20 lines of the file /etc/passwd?     |           |           |
| tail /etc/passwd cat /etc/passwd   tail -20  |              | cat /etc/passwd   head -20   |           |           |
| ○ cat /etc/passwd   tail -20   |              | head /etc/passwd   |           |           |
|  |              | tail /etc/passwd   |           |           |
| ○ head /etc/passwd   tail -20  |              | cat /etc/passwd   tail -20   |           |           |
|  |              | head /etc/passwd   tail -20  |           |           |
|  |              |  |           |           |
|  | ∄ Qu         | uestion  |           | 1         |

|        | /hich of the following commands will print the lines in the file /etc/passwd that contain the string root and then remove all duplicate nes?   |      |
|--------|--|------|
| <br>er | cat /etc/passwd   grep root   uniq   |      |
|        | ○ cat /etc/passwd   grep root   sort -u  |      |
|        | cat /etc/passwd   grep -l root   sort   uniq -d  |      |
|        | cat /etc/passwd   grep -c root   sort   uniq -u  |      |
|        | ○ cat /etc/passwd   grep -u root   sort   uniq -c  |      |
| ::     | Question   | 1 pt |
|        | ne SCAN algorithm for disk scheduling is servicing a frozen queue of requests during a sweep when a new request comes for a ack that has already been serviced in the current sweep. What happens? |      |
|        | Old It is not handled immediately (i.e. queued until the next sweep), regardless of whether it will take longer or shorter than servicing the next request the on-going sweep                      | n    |
|        | It is handled immediately (i.e. not queued until the next sweep), if seeking the track will take shorter than servicing the next request in the on-going sweep                                     | l    |
|        | Old It is handled immediately (i.e. not queued until the next sweep), regardless of whether seeking the track will take longer or shorter than servicing the next request in the on-going sweep    |      |
|        | Oll t is not handled immediately (i.e. queued until the next sweep), if accessing the track will take shorter than servicing the next request in the ongoing sweep                                 |      |
|        | Olit is handled immediately (i.e. not queued until the next sweep), if total positioning time to the requested block will take shorter than servicing the next request in the on-going sweep       |      |
| ::     | Question   | 1 p  |
| Α      | file was opened by a parent process that returned a file descriptor. After that it created a child process using a fork() call. Then:  |      |
|        | The file descriptor variables are local to each process but they point to the same entries in the open file table  |      |
|        | The file descriptor variables are shared by both processes and they point to the same entries in the open file   |      |
|        | The file descriptor variables are local to each process and they point to different entries in the open file table   |      |
|        | The file descriptor variables are shared by both processes yet they point to different entries in the open file table  |      |
|        |  |      |
| ::     | Question   | 1 p  |

In bash scripting, which statement checks whether the variable num is greater than five?

| ıswer | ○ (( \$num > 5 ))  |       |
|-------|--|-------|
|       | ○ (( \$num -gt 5 ))  |       |
|       | ○ [[\$num -lt 5]]  |       |
|       | ○ \$num > 5  |       |
|       | iii Question   | 1 pts |
|       | What Bash script will correctly create these files?  |       |
| ıswer | ○ touch file{110}.txt  |       |
|       | ○ touch file{1+10}.txt   |       |
|       | ○ touch file{1-10}.txt   |       |
|       | O None of these  |       |
| _     |  |       |
| -     | Question   | 1 pts |
|       | When the following system call is executed by the OS:  |       |
|       | <pre>open("/home/user/file.txt", O_RDONLY) how many inodes and data blocks are accessed?</pre> |       |
|       | now many modes and data blocks are accessed:   |       |
| ıswer | O 4 inodes, 3 data blocks  |       |
|       | ○ 4 inodes, 1 data blocks  |       |
|       | ○ 1 inode, 3 data blocks   |       |
|       | ○ 1 inode, 1 data blocks   |       |
| _     |  |       |
|       | iii Question   | 1 pts |
|       | Which of the following process state transitions is NOT possible?                              |       |
| ıswer | Ready to Waiting   |       |
|       | Ready to Running   |       |
|       | ○ Waiting to Ready   |       |
|       | Running to Waiting   |       |
|       | Running to Ready   |       |
| Γ     |  |       |
|       | Question   | 1 pts |
| - 1   |  |       |

|   | In the diagram below job A is represented                                  | ed by black and job B is represented by gre          | rey color.                     |  |  |  |
|---|--|--|--------------------------------|--|--|--|
|   | Q2   |  |                                |  |  |  |
|   | Q1   |  |                                |  |  |  |
|   | Q00 50 100 150   | <b>1</b> 200   |                                |  |  |  |
|   | Why does job B remain in priority queue                                    | e Q2, while job A is relegated to Q0?                |                                |  |  |  |
| er<br>  | O Job B does not use up an entire time                                     | e slice before giving up control of CPU, while Job   | A uses up an entire time slice |  |  |  |
|   | O Program A requests the scheduler to                                      | reduce its priority because it is CPU intensive, w   | while job B does not           |  |  |  |
|   | The scheduler already knows that job                                       | b A will take a long time to complete, while job B   | will finish quickly            |  |  |  |
|   | The scheduler decides priorities arbit                                     | trarily, so it has nothing to do with the behavior o | of the jobs                    |  |  |  |
|   | Question   |  | 1 pts                          |  |  |  |
|   | For output redirection to a file the follow                                | ring code can be used:                               |                                |  |  |  |
|   | <pre>close(STDOUT_FILENO); open(filename, O_CREAT   O_WRONLY   O_TRU</pre> | UNC, S_IRWXU);                                       |                                |  |  |  |
|   | Which of the following statements is NO                                    | OT true.   |                                |  |  |  |
| er<br>  | There are special flags in open() syst                                     | tem call that tell the OS to make this filename as   | s the new STDOUT               |  |  |  |
|   | ○ Closing STDOUT_FILENO releases   | the file-descriptor to be used by other files        |                                |  |  |  |
| The file opened by the open() command assigns the file-descriptor STDOUT_FILENO to the newly opened file      All system calls used for printing data to the console use STDOUT_FILENO file-descriptor by default |  |  |                                |  |  |  |
|   |  |  |                                |  |  |  |
|   | + <u>New q</u>   | + New question group                                 | Q Find questions               |  |  |  |
|   |  |  |                                |  |  |  |
|   | Notify users this quiz has changed   |  | <b>Cancel</b> Save             |  |  |  |