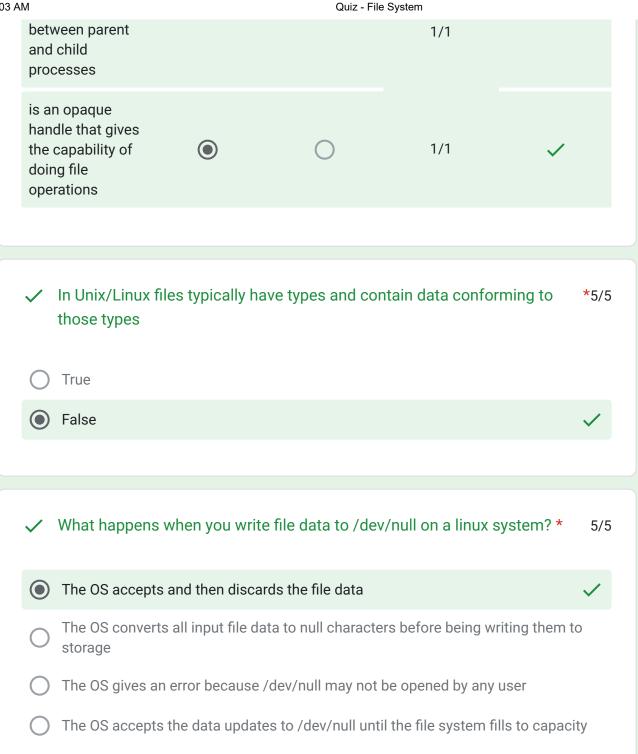# Quiz - File System

Total points **51/51**

Take the quiz solo, but feel free to consult a partner student, the book, the videos or other resources if needed. Re-take quiz if your score is less than 80% or if you just want some more practice.

The respondent's email (**faiyaz@pdx.edu**) was recorded on submission of this form.

Match each special directory name with its meaning. *

	/	~	.	..	/../../../../../..	Score	
root directory	⦿	○	○	○	○	2/2	✓
home directory of the current user	○	⦿	○	○	○	2/2	✓
current directory	○	○	⦿	○	○	2/2	✓
parent directory	○	○	○	⦿	○	2/2	✓

Which of these are common file system features? *

	Yes, common file system feature	No, not a common file system feature	Score	
Compression	◉	○	1/1	✓
Crash Consistency	◉	○	1/1	✓
Fault Enhancement	○	◉	1/1	✓
High Performance	◉	○	1/1	✓
Insecurity	○	◉	1/1	✓
Buoyancy	○	◉	1/1	✓
Write-once archival	◉	○	1/1	✓
Explosion	○	◉	1/1	✓
Fast Recovery	◉	○	1/1	✓
Encryption	◉	○	2/2	✓
Fault Tolerance	◉	○	1/1	✓

Which of the following are true about Linux file descriptors? *

	True about file descriptors	Not true about file descriptors	Score	
returned as a result of the open() system call	◉	○	1/1	✓
is a value from among the set {0, 1, 2}	○	◉	1/1	✓
must be passed into read(), write() and lseek() system calls	◉	○	1/1	✓
is an integer	◉	○	1/1	✓
contains a history of file versions	○	◉	1/1	✓
is private to the process and not shared with other processes	◉	○	1/1	✓
is a structure with size proportional to the size of the file	○	◉	1/1	✓
is shared by threads within a process	◉	○	1/1	✓
indicates whether the file is readable or writeable	○	◉	1/1	✓
is shared	○	◉		✓

between parent and child processes			1/1	
is an opaque handle that gives the capability of doing file operations	◉	○	1/1	✓

✓ In Unix/Linux files typically have types and contain data conforming to those types   *5/5

○ True

◉ False   ✓

✓ What happens when you write file data to /dev/null on a linux system? *   5/5

◉ The OS accepts and then discards the file data   ✓

○ The OS converts all input file data to null characters before being writing them to storage

○ The OS gives an error because /dev/null may not be opened by any user

○ The OS accepts the data updates to /dev/null until the file system fills to capacity

✓   The _____ linux system call allows you to insert a new device's files   *5/5
    and directories at an arbitrary place in the existing directory structure.

○   unlink()

○   unmount()

◉   mount()   ✓

○   link()

✓   The _____ linux system call allows you to add a new name/reference   *5/5
    for an existing file.

○   unmount()

◉   link()   ✓

○   mount()

○   unlink()

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