

# Quiz - File System Consistency

Total points **17/17**

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.

In a healthy, consistent file system, each persistent storage block might be in which of the following states? \*

	Yes, this is a valid state for a storage block	No, this is not a valid state for a storage block	Score	
neither in a file/directory nor on the free list	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓
free/available for use (on the free list)	<input checked="" type="radio"/>	<input type="radio"/>	1/1	✓
on the free list multiple times	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓
assigned to a directory	<input checked="" type="radio"/>	<input type="radio"/>	1/1	✓
assigned to more than one file	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓
both assigned to a file and on the free list	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓
assigned to a file	<input checked="" type="radio"/>	<input type="radio"/>	1/1	✓



✓ If a storage block is found to be not assigned to a file and not on the free list then what should the file system consistency checker do? \*5/5

- ☐ allocate a new block and copy contents to the new block
- ☐ remove the block from the free list
- ☐ delete duplicate free list entries
- ☒ assign the block to the free list ✓

✓ If a storage block is found to be on the free list multiple times then what should the file system consistency checker do? \*5/5

- ☐ allocate a new block and copy contents to the new block
- ☐ remove the block from the free list
- ☐ assign the block to the free list
- ☒ delete duplicate free list entries ✓

This form was created inside of Portland State University.

Google Forms

