HW5

Due Dec 11 at 11:59pm   **Points** 1   **Questions** 3

Available Dec 10 at 12am - Dec 13 at 11:59pm 4 days   **Time Limit** 60 Minutes

Allowed Attempts Unlimited

This quiz was locked Dec 13 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	7 minutes	0.93 out of 1

Score for this attempt: **0.93** out of 1
Submitted Dec 12 at 9:40pm
This attempt took 7 minutes.

Question 1   0.3 / 0.3 pts

Out of the three files systems: FAT, FFS, and NTFS, please answer the
following questions:

- FAT   uses linked list as its index structure but

    NTFS   uses a dynamic tree as its index structure;

- FFS   was released in Unix OS;

- FFS   uses block groups for its locality heuristics.

Answer 1:

Correct!   FAT

Answer 2:

Correct!   NTFS

Answer 3:

Correct!   FFS

Answer 4:

Correct!   FFS

Question 2   **0.22 / 0.3 pts**

In FFS, each file's tree is rooted at an [Inode] that contains the

file's metadata. Typically, it contains [15] pointers, where

[12] pointers are direct pointers with a total of up to a little

over [4] MB.

Answer 1:

Correct!   inode

orrect Answer   Inode

Answer 2:

Correct!   15

Answer 3:

Correct!   12

Answer 4:

'ou Answered   4

orrect Answer   48

Question 3	0.4 / 0.4 pts

For NTFS, please answer the following:

- Rather than tracking individual file blocks, NTFS tracks

  extents , variable-size regions of files that are each stored in

  a contiguous region on the storage device.

- NTFS's master file table stores an array of 1 KB MFT

  records.

- A resident attribute stores its contents directly in MFT record

  while a nonresident attribute store extent pointers in its MFT

  record and stores its contents in those extents.
- If a file is small, the data attribute may be used to store the file's actual

  contents in its MFT record as a resident attribute.

- If a file is huge, a file's attribute list can be made

  nonresident , allowing almost arbitrarily large number of MFT

  records.

Answer 1:

Correct!   extents

Correct Answer   extent

Answer 2:

Correct!   contiguous

Correct Answer   continuous

Answer 3:

Correct!   1

Answer 4:

Correct!

resident

Answer 5:

Correct!

nonresident

Correct Answer

non-resident

Answer 6:

Correct!

resident

Answer 7:

Correct!

attribute

Answer 8:

Correct!

nonresident

Quiz Score: **0.93** out of 1