Exercise 1: File Block Allocation

Started: Oct 14 at 1:10am

Quiz Instructions

I'm not sure if we will get to this exercise in class. If we don't, think of it as a review of the lecture.

Question 1 — 1 pts

Of the three allocation strategies we talked about in class, which requires the least amount of meta data to store information about which blocks belong to a file?

- ◯ Contiguous allocation
- ◯ Linked Allocation
- ◯ Indexed Allocation

Question 2 — 1 pts

Which strategy would be slowest for random access? (Random access is a read request that says, "I would like to read byte X of the file")

- ◯ Contiguous Allocation
- ◯ Linked Allocation
- ◯ Indexed Allocation

Question 3 — 1 pts

Which strategy (or strategies) would be the best for writing to the end of the file if the write caused a new block to be needed?

- [ ] Contiguous Allocation
- [ ] Linked allocation
- [ ] Indexed Allocation

Question 4

1 pts

How many disk accesses are potentially required to read the Nth block of a file that is N blocks long where N is very large?

Contiguous allocation	
Linked allocation	
Indexed allocation	

Quiz saved at 2:11pm

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