

Attempt 1

Submitted on Mar 1, 2025 11:38pm

Attempt 1 Score: N/A

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Details

Q1: What would be the advantages/disadvantages of linked allocation?

Q2: Given the FAT shown below, list the blocks that belongs to the file with a first block address of 25 on disk.

14	-1
15	19
16	12
17	28
18	-1
19	22
20	2
21	31
22	23
23	18
24	-1
25	15

Answer1:

Advantages:

- Solved fragmentation issues
- Flexible sizing of files

Disadvantages:

- Supports sequential access only
- Slower performance due to no direct access to the linked structure

Answer2:

In the file allocation table (FAT), starting from 25, the list of blocks is hereby:

25 -> 15  
15 -> 19  
19 -> 22  
22 -> 23  
23 -> 18  
18 -> -1 (end)

so, the list of blocks is as follows:

25, 15, 19, 22, 23, 18 (ANSWER)

New Attempt