

NAME:

after delete, 99 is first empty block, so file 4 uses it

INDEX FILE -- each row represents an entry in the index file

	at start	step 1	step 2	step 3	step 4	step 5
99	file1		empty	file4		
100	empty	file3			empty	file5
101	empty	file3			empty	file5
102	file1		empty	file4		
103	empty	file3			empty	file5
104	file2					
105	file2					
106	empty			file4		
107	empty					file5
108	empty					file5

No indication in index file that block on HD is only partially full

HARD DRIVE -- each column represents a block on the hard drive. Full

	99	100	101	102	103	104	105	106	107	108
start	1			1		2	2			
step 1										
step 2										
step 3										
step 4										
step 5										

slack space

fragmented file

No changes on HD for delete step

directions:  
 Start shows the initial situation.  
 For each numbered step, fill in what has been changed by that step in both hard drive and index file. **Show ONLY what has CHANGED.** If nothing happens, leave the space for that step blank.

initial situation:  
 file1 in 99,102 1.3 blocks  
 file2 in 104,105 1.7 blocks

steps:  
 1. Save: file3 2.1 blocks - so uses up 3 blocks  
 2. Delete: file1  
 3. Save: file4 2.5 blocks - 3 blocks  
 4. Delete: file3  
 5. Save: file5 4.2 blocks - 5 blocks

correct answer in black ink (other colors are notes)