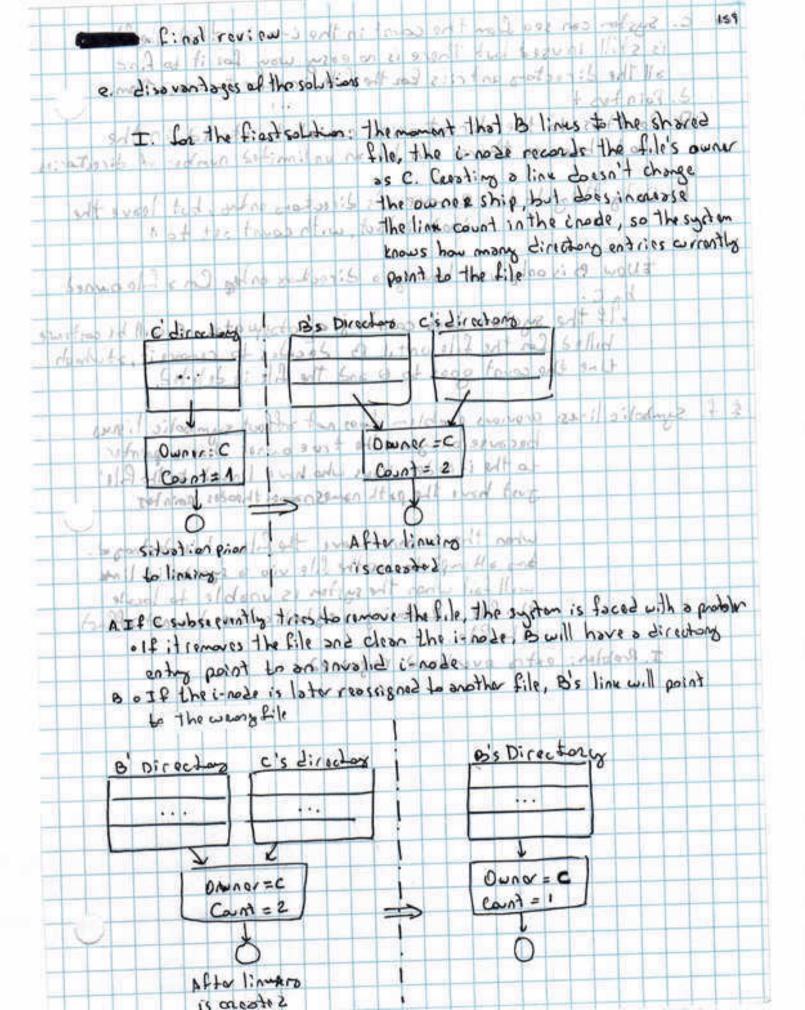
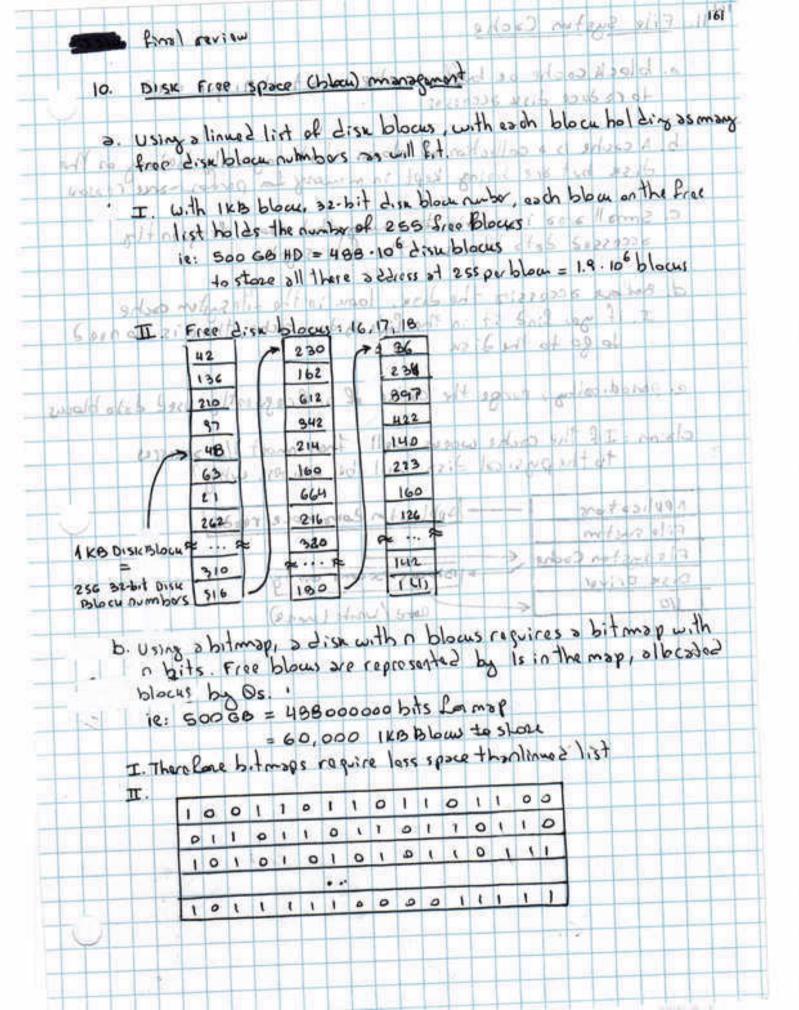
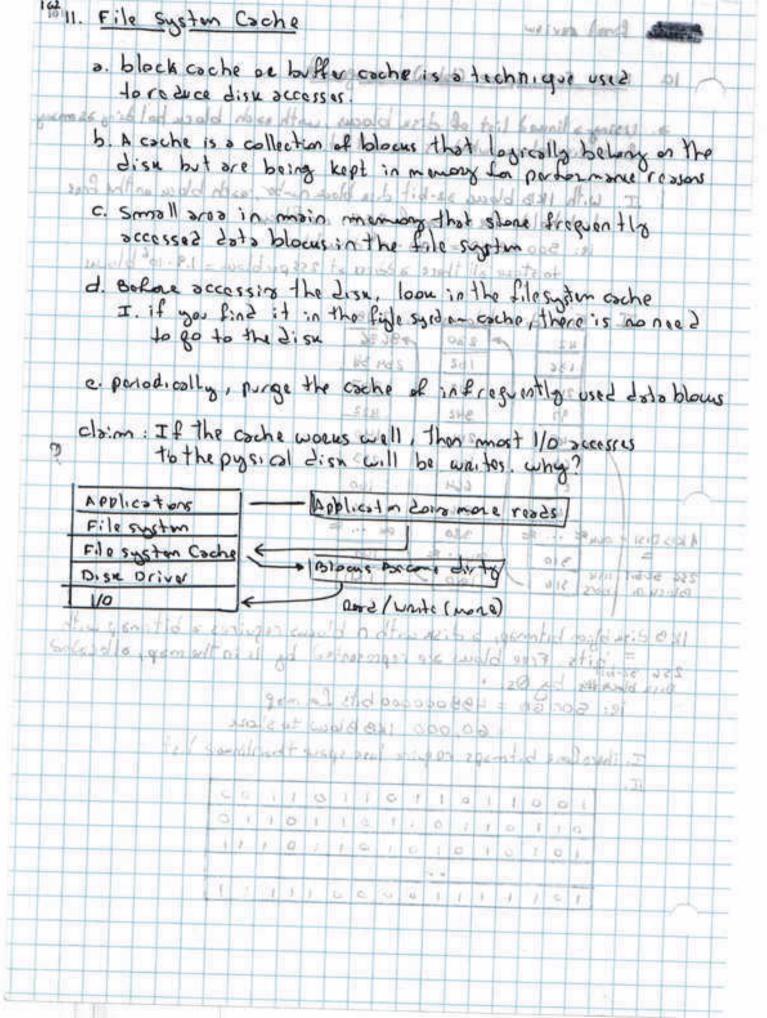


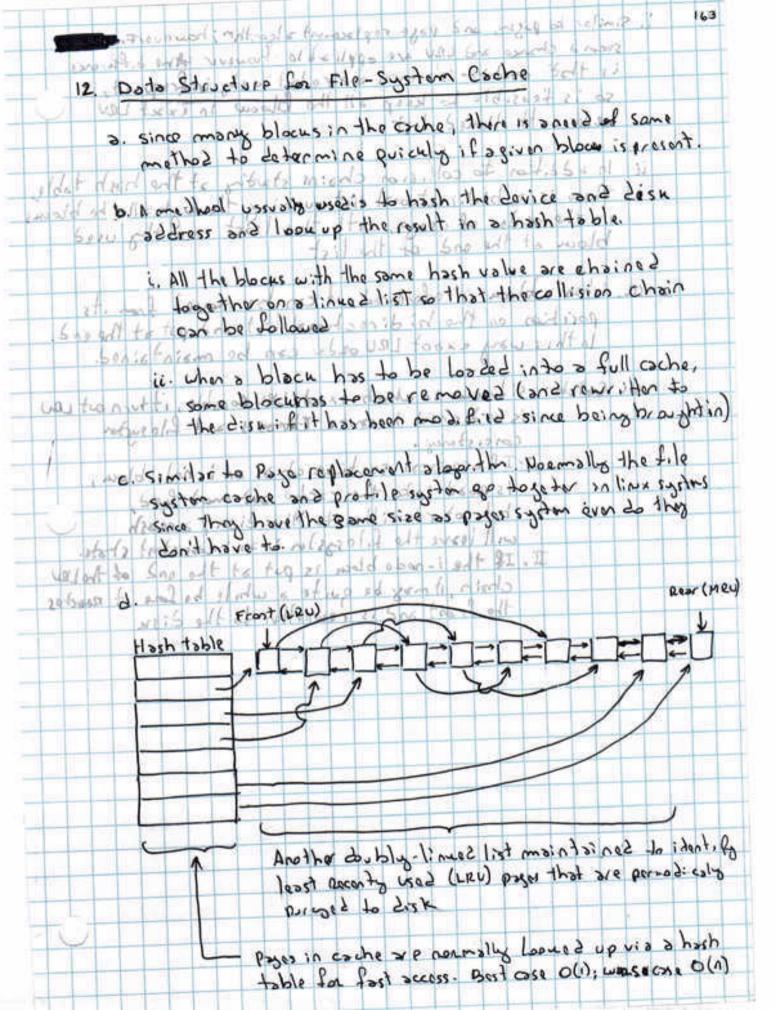
158 b. Advantage: shared lileto appear simultaneously in 2: Placent 2: rectories law if these directories do long to different wers) us so often des of Consold of 66 40 c. disavantagos sulani se male John i motomic Doc I. if directory really do contain disk addresses, then · acopy of the disu addresses will have to be made in - B's directory when the file is lined II. if either B or C subsequently appears to the file, the new blocks will be listed only in the directory of the user doing the append. The changes will not be visible to the other user. This defeat to the purpose and short of short of 2. Soldier to disabatage: I. Dish blows are not listed in directories, but in a little thouse data structure secociated with the file itself. the direction is would then point to the little date Structure (i-no 24) at the of the surface to II. B linus to one of C's files by baving the system coeste ; a memfile, of type LINK, and entering that file in B's directory the new file contains just the path name of the file to which it is linued. When Breads from the linued file, the os sees that the file boing read from is of type LINK, looks up the name of the file, and reads that file this approach is called symbolic linking, to constrast it with traditional hard lineing). III. There most had a have also draw backs



c. system can see from the count in the i-noze that the life as is still in use, but there is no easy way for it to find all the directory entries for the file in order to cross Than. D. Pointers to the directories connet be stored in the inode because there can be an unlimited number of directories E. Only this to do: Remove C's directors on the, but leave the inode intact, with count set to 1 ENOW B is only user having a director enter Con & file owned . If the system does occaunting or equation, C will be continue billed for the file until B decides to remove it, studioh time the count goes to and the file is deleted. f. symbolic lines: provious problem does not offeet symbolic lines because only metho true owner has a pointer to the i-node. Uses who have lined to the Pile' tetrical separations same trul att a red tent when the owner remove the file, it is destroyed. day a Harpt to use the file via a symbolic link will fail when the system is unable to locale the file comoving a sybolic line door not affect the file and good and off of the I. Problem: extra overhead required Sal strill 20 TRANS 1 110010 11







i. Similar to pageno and page replacement algorithm such as F. Mar. sound chance and LRU are appliable; however the difference is that cache references are relatively infrequent, so is feasible to knop all the Bloom in exact LRU order with limited list ii to addition to collision chains starting at the hash table,
there is a hidirectional list running through all the blows
in the order of usage, with the least recontly used
blow at the end of the list in its when a bloom is referenced, it can be moved from its position on the hidirectional list and put at the end. in this way exact LRU order can be maintained. ili Costati: si bocco in which exact LEU possible, it turn out LOU and wis underired boomse Keashes and folosyden consistency. I. If scartford block such as an i- node block, suite is easy into the cache one modified, Azers & I wais and to His Hon to Ahe dish a crash will leave the filosopelar in an inconsistant state. II. If the i-nodo block is put at the one of the Lew chain, it may be quite a while he fore it reaches the front and is reweither to the disk 13H (1984) Gentstalent tril Senal- places ledtorA Son 19 94 feel war (110) boy places the Most 6 six gu 1 sugal july you (A) 0 100 2184 (DO 100 FDB 122 DO 100

