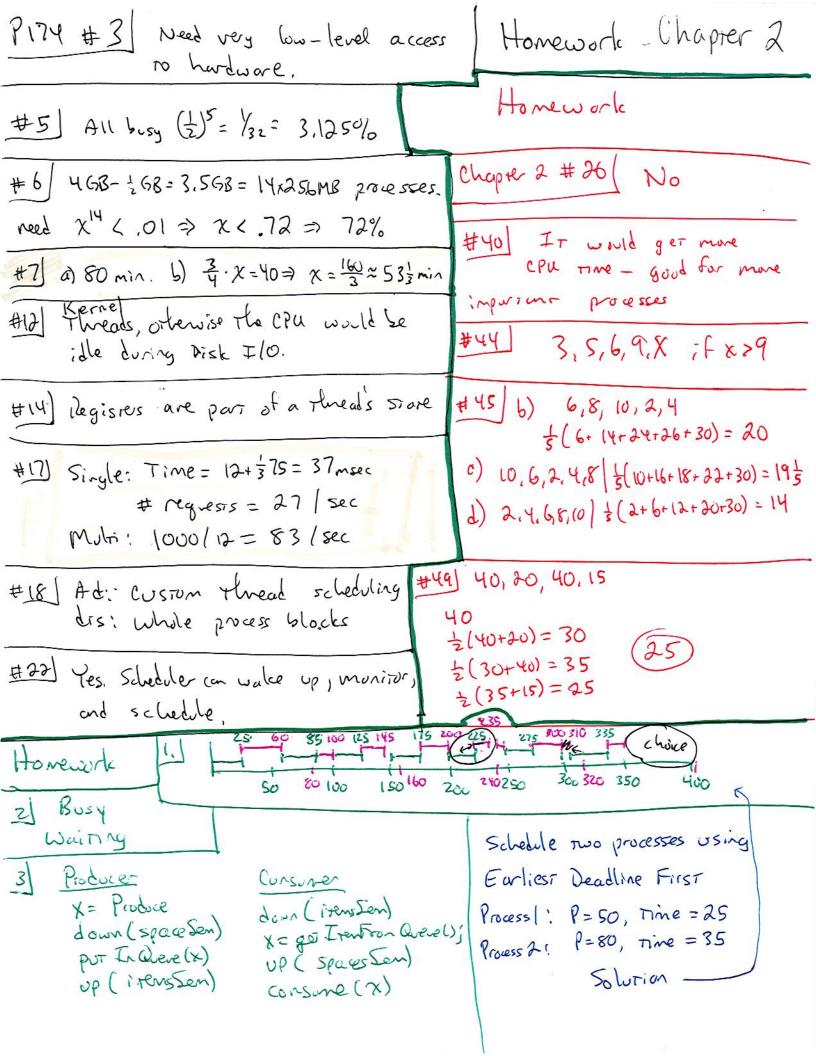
OS Honework Ch apre Problem #10 Menel mole US. Use Mode otherise it will purite to buffer #16 Block TO write TO diste and not block. #18 To save pouss stare. Yes, if it's unulaitable (fage 39) #23 [1,5,9,2] (P.51+57) Rem= STOS@O. #25 Block special - Random Access lite disks Character Mecal- Smean dara (P44) #27 Virtual memory: l. Save to list : for of RAM

D. Each madine has our Address Exact.



```
Chapter 3
Honework
#6 4k pages: (4,3616), (8,0), (14,2656)
               8k pages (2,3616), (4,0), (7,2656)
#7 20-> 8192+28 = 8212
                4100 -> 88822 Store 4100
                8300 4 = 2.4096 + 108-> 6.4096 + 108 = 24684
#14 32 hirs, 13 hirs = page => 2 pages = 2 bytes -> 2 × 100 nsec=2 × 10 rsec
                      = \frac{1}{2} \times 2 \times 10^2 \sec \approx \frac{1}{2} \times 10 \times 10^7 = \frac{1}{20} \sec = \times 50 \times 10 \times 10^7 = \frac{1}{20} \sec = \times 50 \times 10^7 = \frac{1}{20} \times 10^7 = \
#15a) 24 - 212 = 236 = 64 billian
 # 22 | X.1+ (1-x).5=2 | 5-4x=2 | 3=4x | |x=75%
 #41 a) No-reeds 17 pages. b) yes. Need 128, have 128
 Honework Ch. 3 #13 (1+ 1/k) n sec
 #16] 1x(0,99) + 100x(.0099) + 6000000 (.0001) = 601.98 msec
 #17 a) Use less memory b) 126 12 14 birs one page-worth
                                          Top level - 12 birs works well)
 #19
                                                     11 12 Pages are 212 = 4K = 4096 bytes, 20 pages
#24 248-13 = 235 = 32 billion # 32 a) Mes, age $>400 b) No, age < 1000
 \#42) n + 2000-15000 = 60,000,000 \Rightarrow n = 30,000,000
                  30,000+ 2000 .7500 = 45,000,000 = 45 sec
```

Chapre 4 # 1,6,10,25,30,35,

HI . / erc/ passwd

non! . / erc/. / passwd

non! . / erc/. / erc / passwd

oxist . / erc /. . / erc / passwd

ovine . / . / erc / passwd

. / erd . . / . / erc / passwd

Renaming merely changes data in a directory file. Copying and deleting uses (temporarily) a new inside entry, desproys links to the old file, and moves the file on disk.

#30 For small files it would save disk space, as a 4k block would not need to be allocated. Also, If the inode is read into memory, as it is whenever a file is accessed, then if it is a small file, the whole file will be already present in the inode.

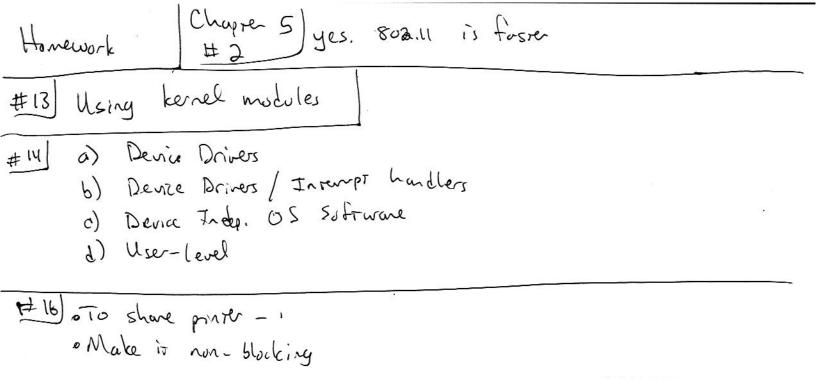
#35 (See pages 285-6)

fi: 22,19,15,17,21, fz: 16,23,14,18,20

#10 / usr/ast/x

#25 Including the Two givens:

Note: "B' and 'C' are meant to Stand for 'I' bits, but are given to show the file in those blocks.



Chapter 6 # 6,8; 10,14, 17,21, 22,26,39 #6 "Don't block the box" attacks the hold + wait condition. A cor cannot hold the intersection, while waiting for the intersection ahead to clear In this serup, Process A acquired 2 wpies of resource 1, B (all avoilable copies), then Process B acquired resource 2. Now Process A is blocked wairing for 2, and Bis. blocked waiting for any copy of 1. #10 In reither case can deadlock occur. Since A already has all of its resources, it can not block, and so will eventually release Rad S. Since processes B and C share only a single resource, no deallack can occur between them. #14] Only row & is EA. So we release process 2's resources, giving a new A = (0,2,0,3,1). Now only row 3 is EA, so we release process 35 resources, giving A = (0,2,0,3,2). At this point we see that processes I and 4 are deadlocked. #17] Parallel processing [#22] No deadlock possible. If no resource is available now, then some process must be holding 2 copies, which is its max, so it will not block before releasing at least I resource. Then a waiting process can make progress #21) If D gers I, we are deadlocked. If C gers I, we are time. #26] None at all. There is not enough of resource I to satisfy A, ever. #39 Wort be on final.

(Sonaphores will be, but not a hard problem like this.) W.II send solution later.