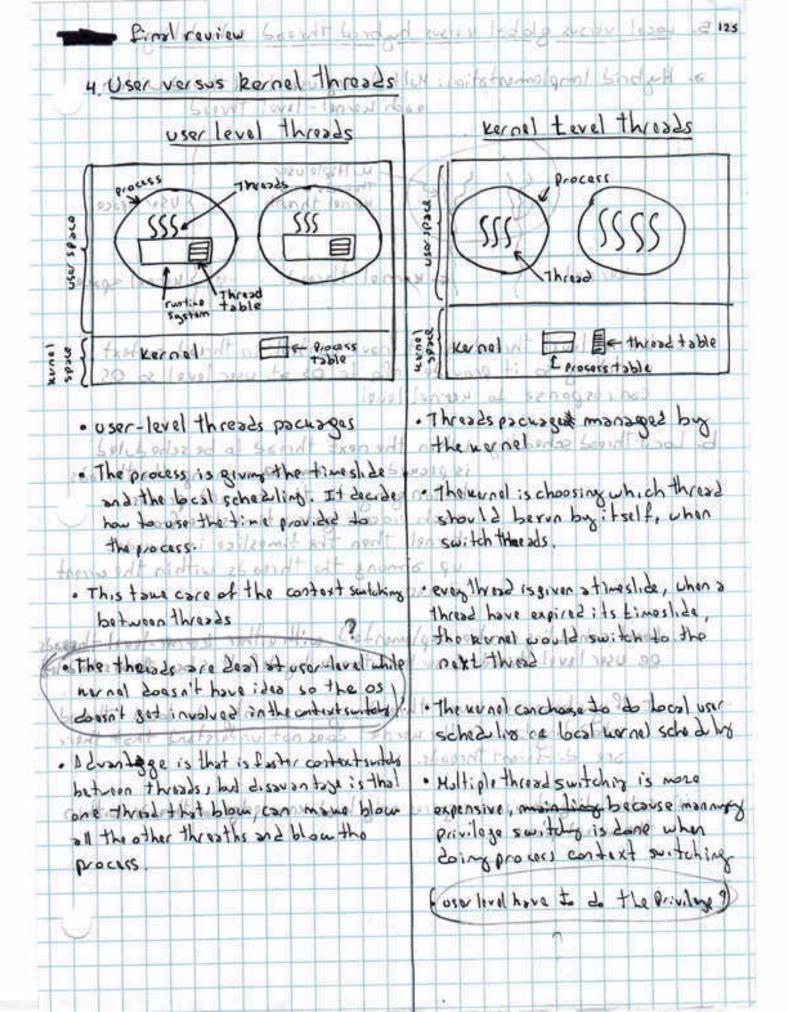
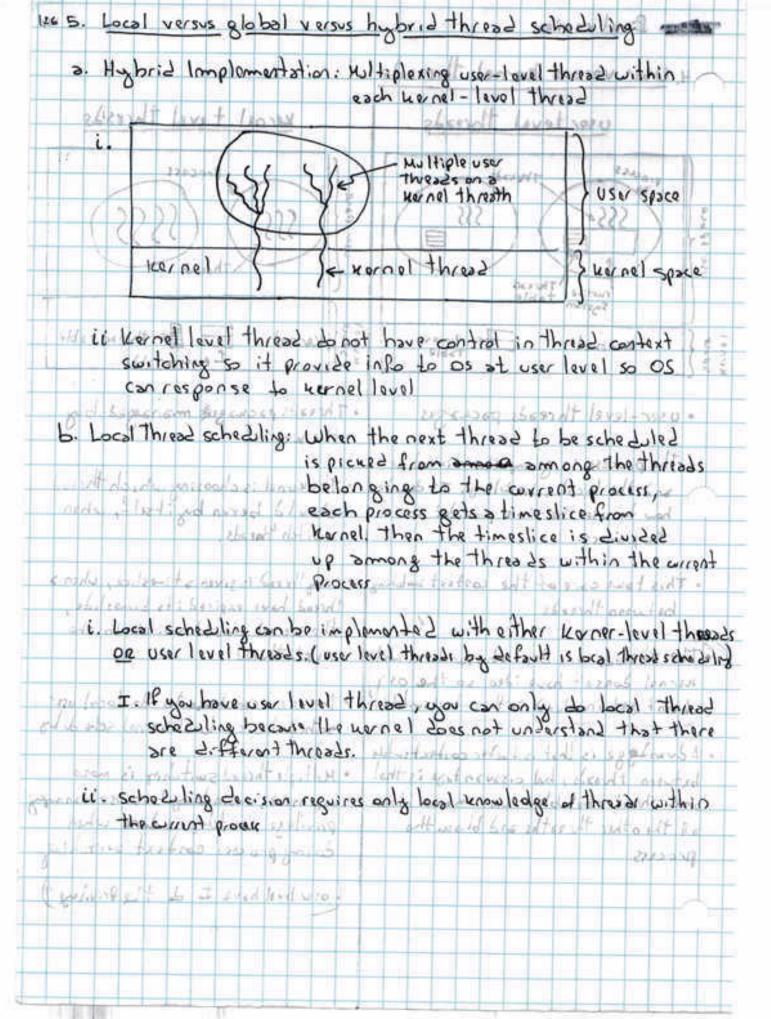
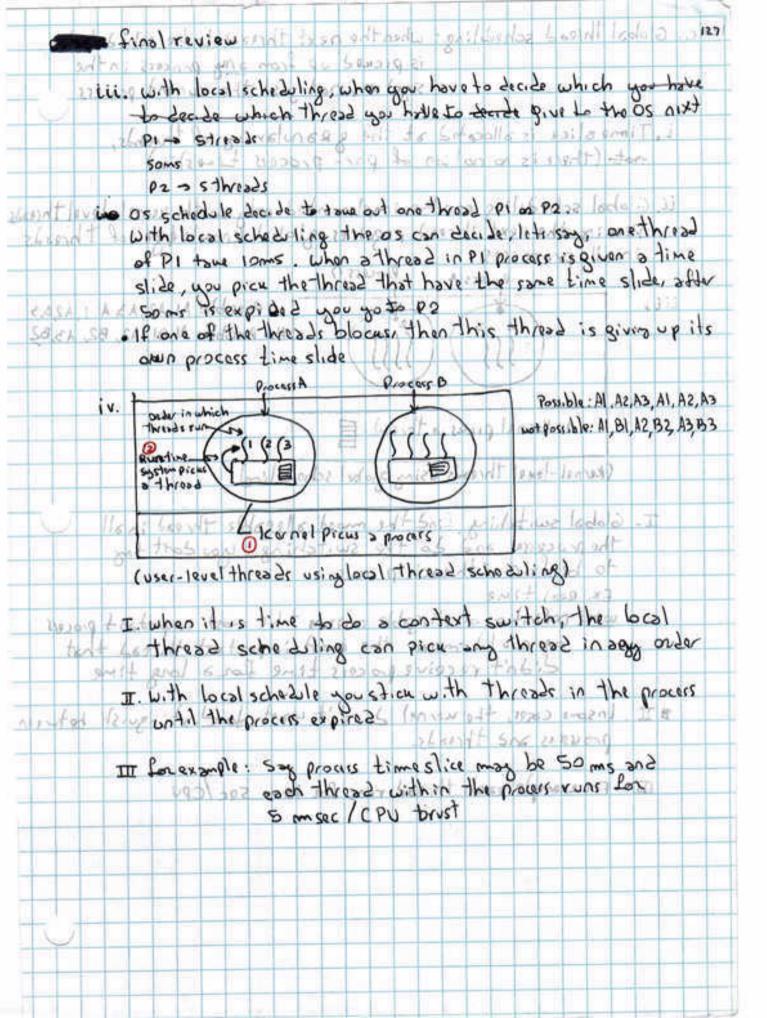
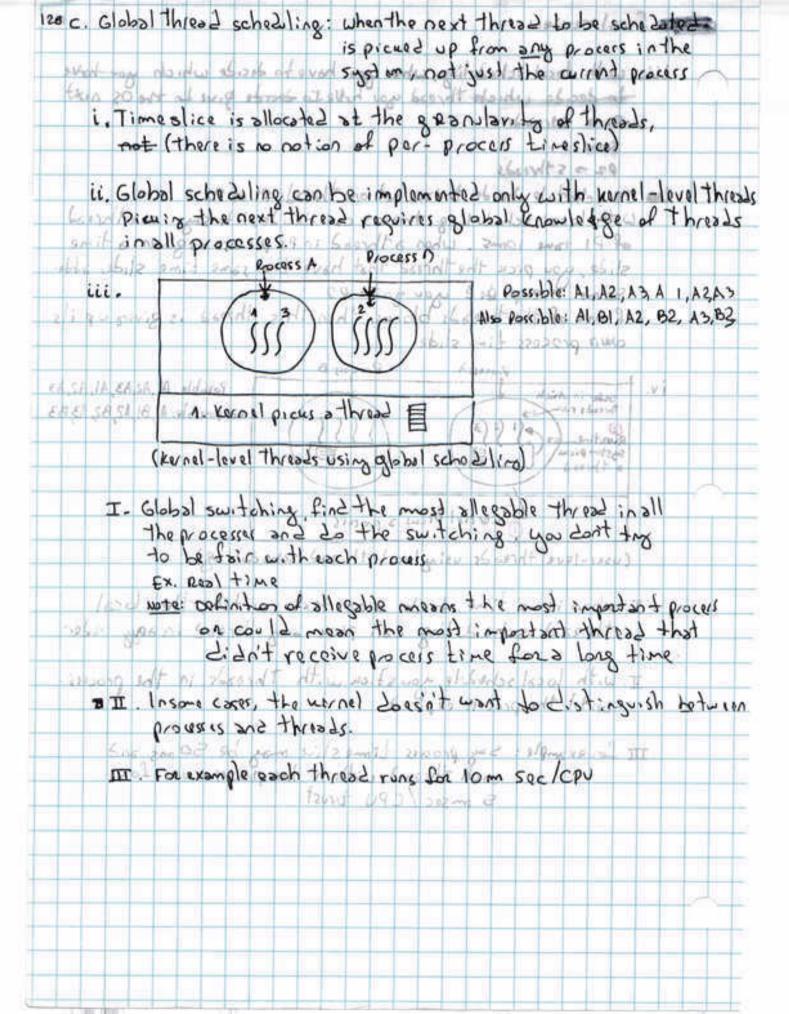


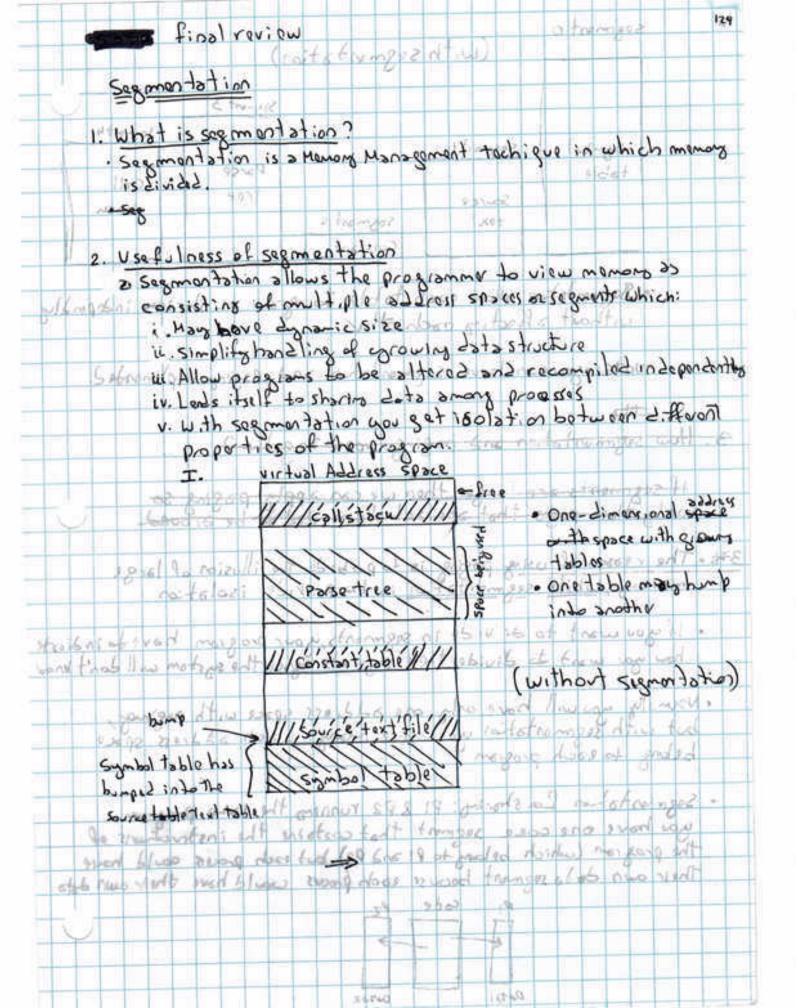
e. priority: threads can have different levels of privates, 124 sowe can indicate the CPU which thread have more importance than other 22 got nover: 5 5 no 20get novs A. E a. the advantages of using threads: i. light-weight [which means Lower Context switching Overhead (LSCO) and fewer Os resources] I. DE LCSO: when you switch from onk thread to mother thread, you only switch all the non-should context. Therefore context switching is lighter, and fewer Os resorves are consume ic. Shared State: There is no need throads don't need interprocess communication machanism (inc)-like to comministe botwood throads of the some process b. Disadvantages of threads: i. Share 2 state: Global variables are share 2 between threads. Accidental changes can be ii. Some libraries functions may note be thread-safe (if a library function store information in an specific place, two threads could trooto conite in at the smatine) I get host by Name () is an example of a library function that return pointes to static internalment, in which case it could provide 2. Pforent results. ici. I ach of robust ness: If one thread coashes then the (one thread die than all threads die)

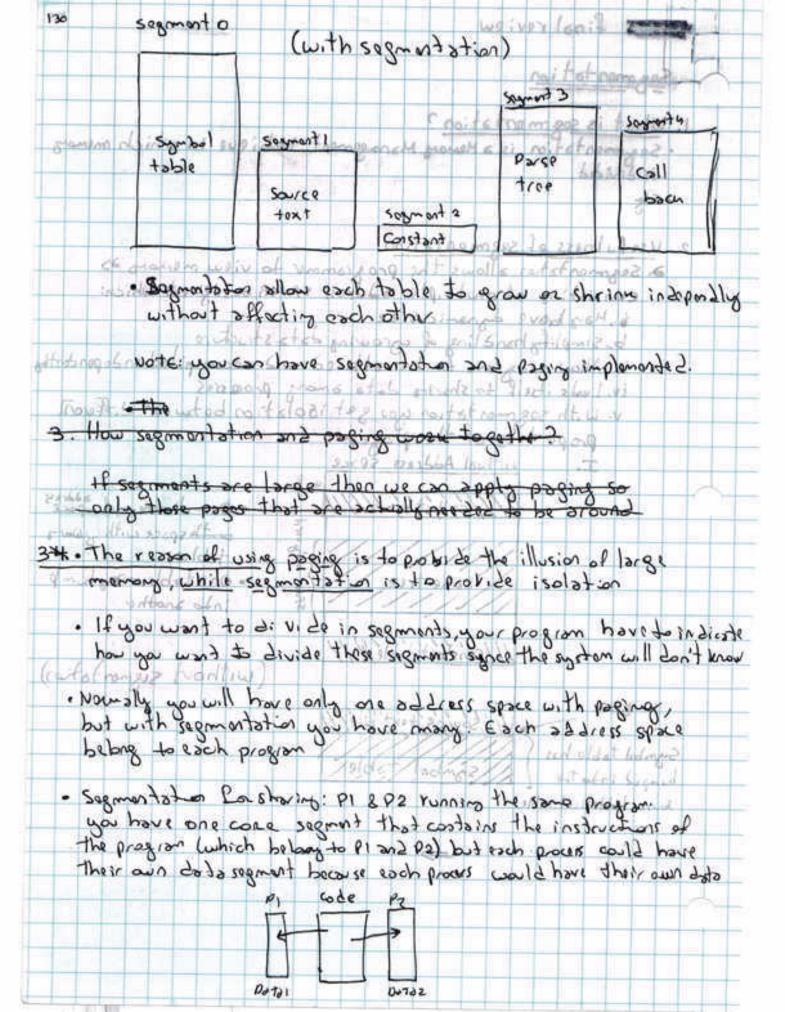


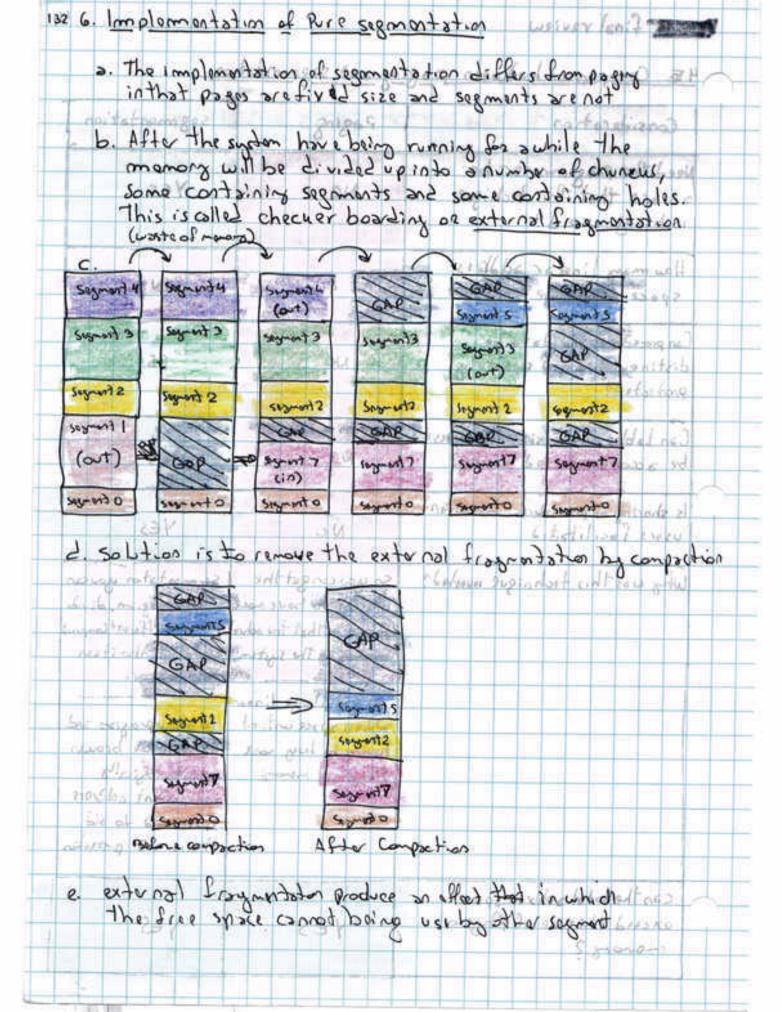


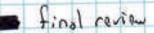




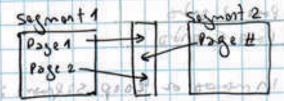








- 7. How segmentation and paging works together?
- . If a segments are large then we can apply paging so only those pages that are actually needed be around
- · Basic idea: Assign a page table to each of these segments.
  The main momony is organized in pages, and
  these pages are organized in gegments
- · Therefore, we divide a sognant into pace. Then we don't new all those pages next to each other in mamony except the Pages needed.



- B. Segmentation with Paging MULTICS hered of autoci-
- 218 segments, each which could be up to 36 bits words long (65,536 words bod)

exell boast rollton beautie

- b. Each segment as a virtual memoro and page it
- c. Each MULTICS program has a segment table, with one descuptor
  per segment. The segment table is itself a segment and is paged
  i. A segment description contains an indication of whether the segment
  is in main money exact.

is I . If any part of the segment is in menory, the segment is to be considered in memor and its page to the will be in memor.

II - If the soyment is in memor, its descarpter contains a 18 bit pointer to its page table

& 2350/min Allino235