

**CSci 430/530 HOMEWORK 3** (50 points, Due on Fri Apr 8)

**Problem 1:** (25 points) Show how you would rewrite `sdelete()` so that it would refuse to delete a busy semaphore (e.g. a semaphore that has processes currently waiting on it). What would happen to a process waiting on a semaphore that got deleted while it was waiting?

**Problem 2:** (25 points) XINU applies the first-fit method from one end of the free list. Show what changes you would make to `getmem()` to even out the allocation of memory across the free memory area by beginning the current search where the last allocation left off. This is similar to how process id's are allocated beginning from the last process id assigned.