

### **HW 3: Priority-based Scheduler for xv6**

#### **Task 1. Modify the provided ps command to print the priority of each process.**

I added the `sys_getpriority` and `sys_setpriority` system calls to the `syscalls` array, basically following the same process for the other system calls in previous homeworks. Also added them with their respective call number on `syscall.h` and incorporated the signatures with their return types on `user.h`. The priority field was an integer value added to the `proc` struct inside `proc.h`.

`sys_getpriority()` is simply a return statement to retrieve the priority field of the process and `sys_setpriority()` just assigns the value specified by method itself.

#### **Task 2. Add a readytime field to struct proc, initialize it correctly, and modify ps to print a process's age.**

Inside the `proc` struct that's located in `proc.h` I included the `readytime` variable as an unsigned 64 bit integer. Consequently, I included a variable for the `readytime` field inside the `pstat` struct in `pstat.h`.

In order to be able to use this `readytime` field I included the variable inside the `wakeup` process and assigned the value with the system call `uptime()`.