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Team #19
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Lab1 - Writeup

- 1. proc.h: Added variable int priority;
- defs.h: Added void setpriority(int priority);
- 3. usys.S: Added SYSCALL(setpriority)
- 4. syscall.h: Added #define SYS setpriority 22
- 5. syscall.c: Added extern int sys setpriority(void);
- user.h: Added void setpriority(int);
- 7. proc.c
 - a. Added function void setpriority(int p)

```
struct proc *curproc = myproc();
//if in range set procedure
if(p >= 10 && p<= 31) {
   curproc->priority = p;
}
```

- b. Changes to existing scheduler function
 - i. Add variable int highP to keep track of the process with the highest priority
 - ii. Add loop to find the highest priority

```
for(p = ptable.proc; p < &ptable.proc[NPROC]; p++) {
   if(p->state == RUNNABLE && p->priority < highP)
     highP = p->priority;
}
```

- 8. sysproc.c
 - a. Added function int sys setpriority(void)

```
int priority;
if(argint(0, &priority) < 0)
   return -1;
setpriority(priority);
return 0;
}</pre>
```

- 9. Makefile
 - a. Added lab2 test\ to UPROGS