Programming Assignment #1: 537ps

```
$ ./537ps  -p<pid>  -s  -U  -S  -v  -c  -mem <addr> <len>
```

(allow multiple occurrences for EC)

single-character process info from /proc/<pid>/stat "state" field DEFAULTS OFF

system time /proc/<pid>/stat "stime" field DEFAULTS OFF

user time /proc/<pid>/stat "utime" field DEFAULTS ON ?

virt. memory pages /proc/<pid>/statm first field, "size" DEFAULTS OFF

command 'displays the command line that started this program' /proc/<pid>/cmdline DEFAULTS ON ? ∅ null-terminated strings

EXTRA CREDIT: hexdump of memory starting at <addr> and going for <len> bytes /proc/<pid>/mem use ptrace?

Data Sources

/proc/pid/stat → state (-s)
             → utime (-U)
             → stime (-S)

/proc/pid/statm → size (-v)

/proc/pid/cmdline → invocation in the form of null-terminated strings (-c)

/proc/pid/mem OR ptrace() → process memory (-mem)

Program Design

flags:
• output specifiers
• pid

???

output (text)