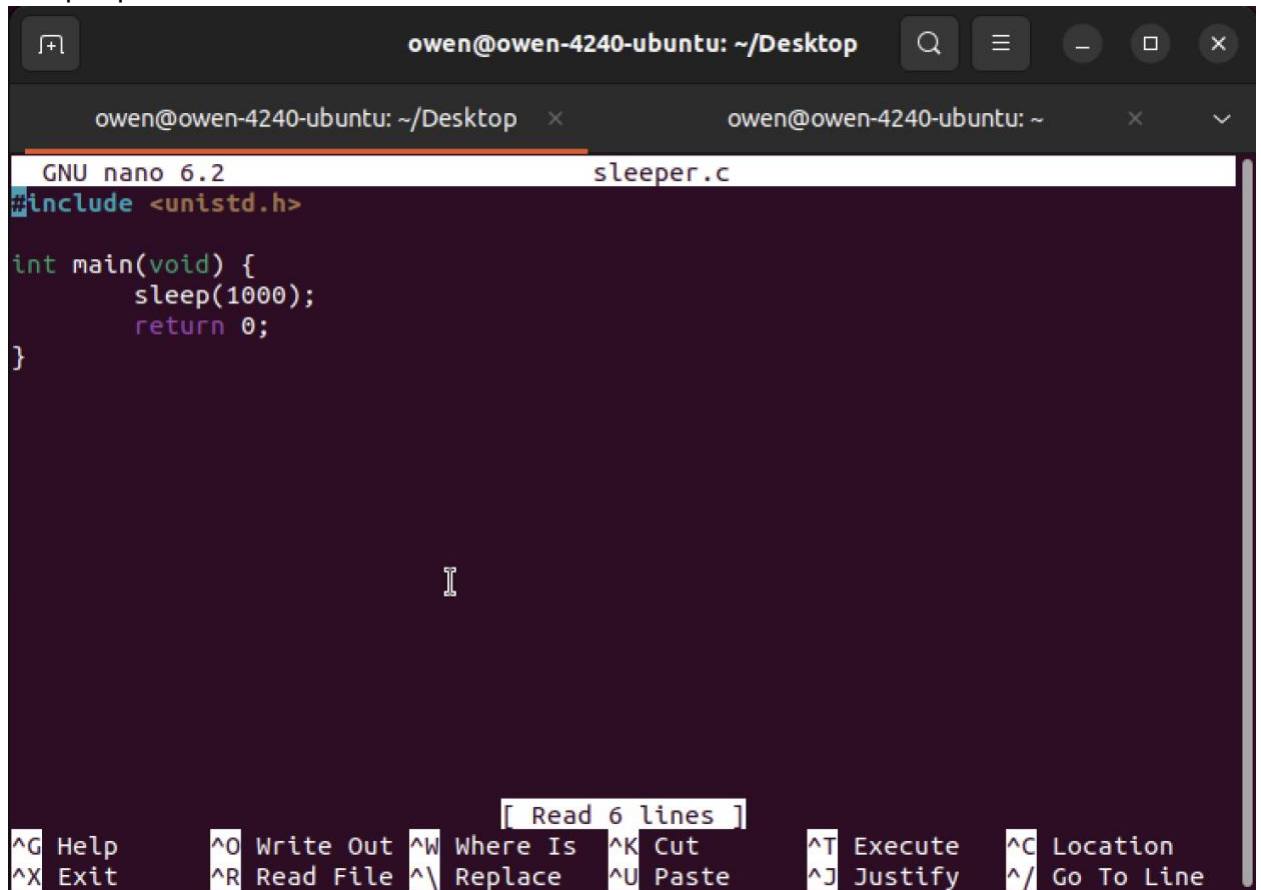


1. sleeper process:



```
owen@owen-4240-ubuntu: ~/Desktop
GNU nano 6.2 sleeper.c
#include <unistd.h>

int main(void) {
    sleep(1000);
    return 0;
}

[ Read 6 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute  ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify  ^_ Go To Line
```

2. htop output (sleeper process highlighted in orange at the bottom):

```
owen@owen-4240-ubuntu: ~  
owen@owen-4240-ubuntu: ~/Desktop  
Tasks: 118, 259 thr; 1 running  
Load average: 0.12 0.08 0.02  
Uptime: 00:38:26  
Mem[|||||||] 872M/3.81G  
Swp[|||||] 0K/3.66G  
0[|] 1.3%  
1[|] 1.3%  
2[|] 0.7%  
3[|] 0.0%  
PID USER PRI NI VIRT RES SHR S CPU% MEM% TIME+ Command  
2258 root 20 0 23460 4352 3840 S 0.0 0.1 0:00.00 su  
2259 root 20 0 18380 3712 3200 S 0.0 0.1 0:00.00 bash  
2309 owen 20 0 552M 49864 37572 S 0.0 1.2 0:03.86 /usr/libexec/gn  
2321 owen 20 0 552M 49864 37572 S 0.0 1.2 0:00.00 /usr/libexec/gn  
2323 owen 20 0 552M 49864 37572 S 0.0 1.2 0:00.00 /usr/libexec/gn  
2324 owen 20 0 552M 49864 37572 S 0.0 1.2 0:00.00 /usr/libexec/gn  
2371 owen 20 0 19412 4480 3200 S 0.0 0.1 0:00.02 bash  
2379 owen 20 0 19280 4608 3328 S 0.0 0.1 0:00.02 bash  
2826 root 20 0 16444 1920 1792 S 0.0 0.0 0:00.00 /usr/sbin/anacr  
2890 root 20 0 84844 12288 10240 S 0.0 0.3 0:00.00 /usr/sbin/cupsd  
2895 root 20 0 169M 9984 8576 S 0.0 0.2 0:00.00 /usr/sbin/cups-  
2901 root 20 0 169M 9984 8576 S 0.0 0.2 0:00.00 /usr/sbin/cups-  
2902 root 20 0 169M 9984 8576 S 0.0 0.2 0:00.00 /usr/sbin/cups-  
2905 owen 20 0 2052 768 768 S 0.0 0.0 0:00.00 ./sleeper  
F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice -F8Nice +F9Kill F10Quit
```

3. renice the process (set nice value to -1, lowered from 0):

```
owen@owen-4240-ubuntu: ~  
owen@owen-4240-ubu... x owen@owen-4240-ubu... x owen@owen-4240-ubu... x  
owen@owen-4240-ubuntu:~$ sudo renice -n -1 -p 3219  
[sudo] password for owen:  
3219 (process ID) old priority 0, new priority -1  
owen@owen-4240-ubuntu:~$
```

```
0[ | 0.7%] Tasks: 118, 259 thr; 1 running  
1[ | 1.3%] Load average: 0.06 0.08 0.02  
2[ | 0.7%] Uptime: 00:45:28  
3[ | 0.7%]  
Mem[||||||| 878M/3.81G]  
Swp[ 0K/3.66G]
```

PID	USER	PRI	NI	VIRT	RES	SHR	S	CPU%	MEM%	TIME+	Command
2258	root	20	0	23460	4352	3840	S	0.0	0.1	0:00.00	su
2259	root	20	0	18380	3712	3200	S	0.0	0.1	0:00.00	bash
2309	owen	20	0	553M	50340	37664	S	0.0	1.3	0:06.58	/usr/libexec/gn
2321	owen	20	0	553M	50340	37664	S	0.0	1.3	0:00.00	/usr/libexec/gn
2323	owen	20	0	553M	50340	37664	S	0.0	1.3	0:00.00	/usr/libexec/gn
2324	owen	20	0	553M	50340	37664	S	0.0	1.3	0:00.00	/usr/libexec/gn
2371	owen	20	0	19412	4480	3200	S	0.0	0.1	0:00.04	bash
2379	owen	20	0	19280	4608	3328	S	0.0	0.1	0:00.02	bash
2890	root	20	0	84844	12288	10240	S	0.0	0.3	0:00.00	/usr/sbin/cupsd
2895	root	20	0	169M	9984	8576	S	0.0	0.2	0:00.00	/usr/sbin/cups-
2901	root	20	0	169M	9984	8576	S	0.0	0.2	0:00.00	/usr/sbin/cups-
2902	root	20	0	169M	9984	8576	S	0.0	0.2	0:00.00	/usr/sbin/cups-
3219	owen	19	-1	2052	768	768	S	0.0	0.0	0:00.00	./sleeper
3221	owen	20	0	19148	4480	3200	S	0.0	0.1	0:00.01	bash

F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice - F8Nice + F9Kill F10Quit

4. increase priority (set nice value to 1, increased from -1):

```
owen@owen-4240-ubuntu: ~  
Tasks: 118, 259 thr; 1 running  
Load average: 0.02 0.06 0.02  
Uptime: 00:48:34  
Mem[||||||| 878M/3.81G  
Swp[ 0K/3.66G
```

PID	USER	PRI	NI	VIRT	RES	SHR	S	CPU%	MEM%	TIME+	Command
2257	root	20	0	24964	1828	1024	S	0.0	0.0	0:00.00	sudo su
2258	root	20	0	23460	4352	3840	S	0.0	0.1	0:00.00	su
2259	root	20	0	18380	3712	3200	S	0.0	0.1	0:00.00	bash
2321	owen	20	0	553M	50340	37664	S	0.0	1.3	0:00.00	/usr/libexec/gn
2323	owen	20	0	553M	50340	37664	S	0.0	1.3	0:00.00	/usr/libexec/gn
2324	owen	20	0	553M	50340	37664	S	0.0	1.3	0:00.00	/usr/libexec/gn
2371	owen	20	0	19412	4480	3200	S	0.0	0.1	0:00.04	bash
2379	owen	20	0	19280	4608	3328	S	0.0	0.1	0:00.02	bash
2890	root	20	0	84844	12288	10240	S	0.0	0.3	0:00.00	/usr/sbin/cupsd
2895	root	20	0	169M	9984	8576	S	0.0	0.2	0:00.00	/usr/sbin/cups-
2901	root	20	0	169M	9984	8576	S	0.0	0.2	0:00.00	/usr/sbin/cups-
2902	root	20	0	169M	9984	8576	S	0.0	0.2	0:00.00	/usr/sbin/cups-
3219	owen	21	1	2052	768	768	S	0.0	0.0	0:00.00	./sleeper
3221	owen	20	0	19148	4480	3200	S	0.0	0.1	0:00.01	bash

```
F1Help F2Setup F3Search F4Filter F5Tree F6SortBy F7Nice - F8Nice + F9Kill F10Quit
```