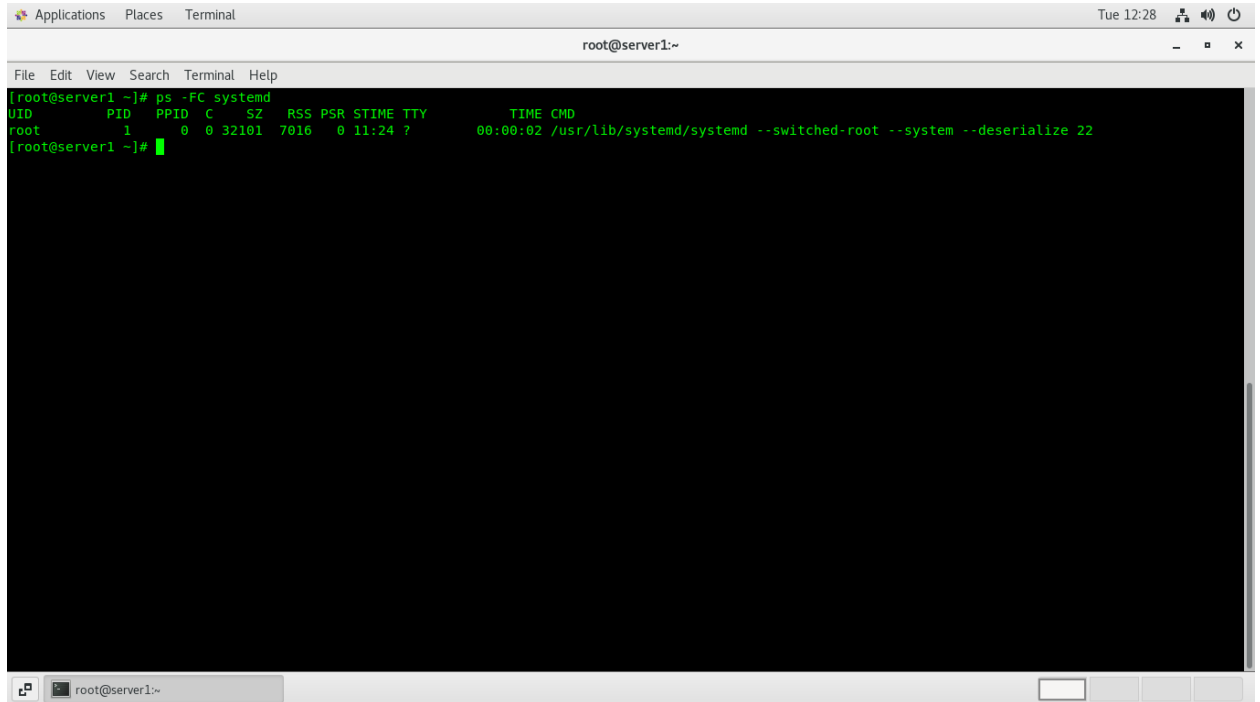


# ASSIGNMENT NO 3

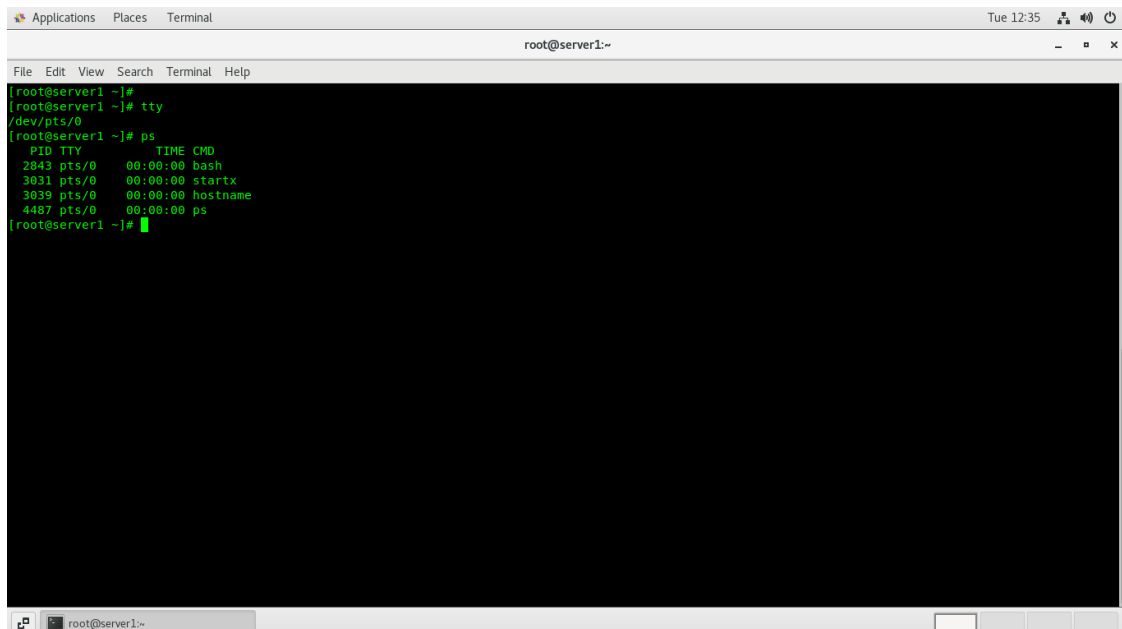
1. Use ps to search for the “systemd” process by name.



A terminal window titled "root@server1:~" showing the command `ps -FC systemd` and its output. The output is a table of process information for the systemd process.

UID	PID	PPID	C	SZ	RSS	PSR	STIME	TTY	TIME	CMD
root	1	0	0	32101	7016	0	11:24	?	00:00:02	/usr/lib/systemd/systemd --switched-root --system --deserialize 22

2. Find out your terminal name. Using your terminal name, use ps to find all processes associated With your terminal.



A terminal window titled "root@server1:~" showing the command `tty` and its output, followed by the command `ps` and its output. The `tty` command output is `/dev/pts/0`. The `ps` command output is a table of process information for processes associated with the terminal.

PID	TTY	TIME	CMD
2843	pts/0	00:00:00	bash
3031	pts/0	00:00:00	startx
3039	pts/0	00:00:00	hostname
4487	pts/0	00:00:00	ps

# ASSIGNMENT NO 3

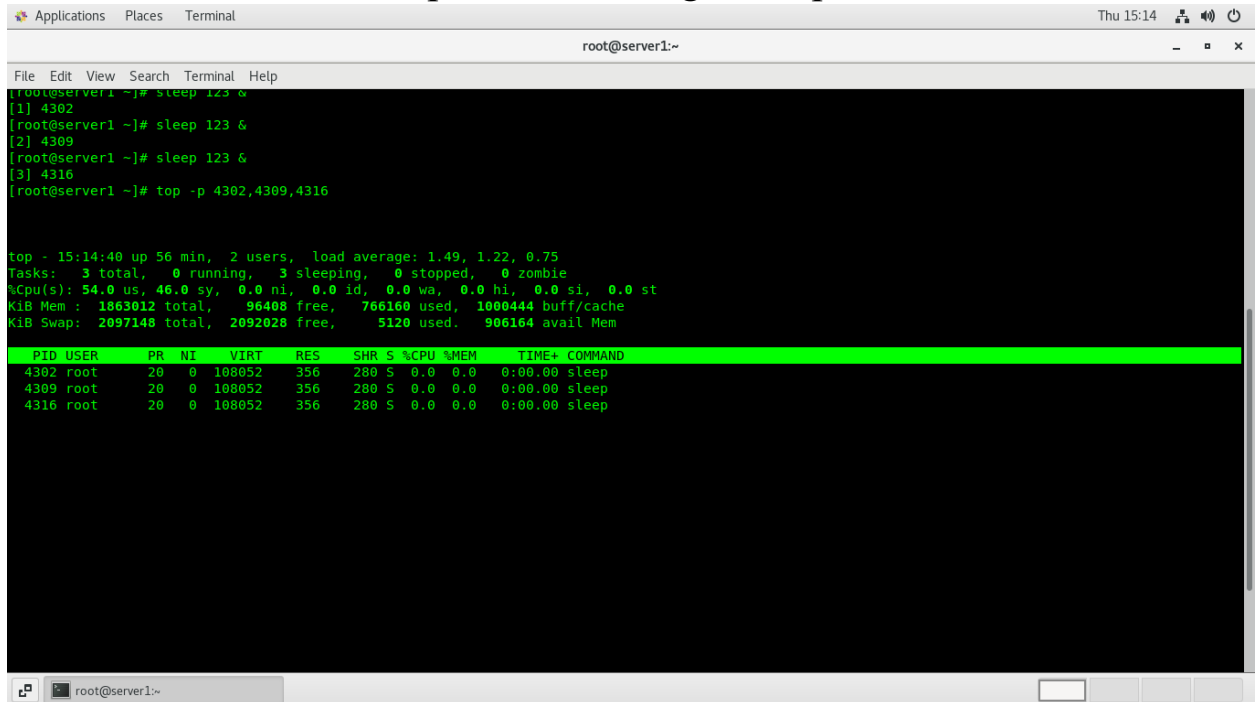
3. Check and note the process id of your shell(from the output of the above command). Also, note the parent process id of your shell.

```
Applications Places Terminal Tue 12:38
root@server1:~
File Edit View Search Terminal Help
root 2590 1 0 11:29 ? 00:00:00 /usr/libexec/evolution-calendar-factory
root 2608 2187 0 11:29 ? 00:00:00 nautilus-desktop --force
root 2620 2230 0 11:29 ? 00:00:00 /usr/libexec/gvfsd-trash --spawner :1.4 /org/gtk/gvfs/exec_spaw/0
root 2625 2590 0 11:29 ? 00:00:00 /usr/libexec/evolution-calendar-factory-subprocess --factory all --bus-name org.gnome.evolution.data
root 2633 2187 0 11:29 ? 00:00:01 /usr/bin/gnome-software --gapplication-service
root 2644 1 0 11:29 ? 00:00:00 /usr/libexec/dconf-service
root 2646 1 0 11:29 ? 00:00:06 /usr/bin/vmtoolsd -n vmusr
root 2656 1 0 11:29 ? 00:00:00 /usr/libexec/evolution-addressbook-factory
root 2657 2187 0 11:29 ? 00:00:00 /usr/libexec/tracker-extract
root 2663 2187 0 11:29 ? 00:00:00 /usr/libexec/tracker-miner-fs
root 2667 2187 0 11:29 ? 00:00:00 /usr/libexec/tracker-miner-apps
root 2680 2187 0 11:29 ? 00:00:00 /usr/libexec/tracker-miner-user-guides
root 2683 2387 0 11:29 ? 00:00:00 /usr/libexec/ibus-engine-simple
root 2695 1 0 11:29 ? 00:00:00 /usr/libexec/tracker-store
root 2699 2656 0 11:29 ? 00:00:00 /usr/libexec/evolution-addressbook-factory-subprocess --factory all --bus-name org.gnome.evolution.d
root 2701 2187 0 11:29 ? 00:00:00 abrt-applet
root 2708 2187 0 11:29 ? 00:00:00 /usr/bin/seapplet
root 2718 2187 0 11:29 ? 00:00:00 /usr/libexec/gsd-disk-utility-notify
root 2769 2230 0 11:30 ? 00:00:00 /usr/libexec/gvfsd-burn --spawner :1.4 /org/gtk/gvfs/exec_spaw/1
root 2789 1 0 11:30 ? 00:00:00 /usr/libexec/fwupd/fwupd
root 2835 1 0 11:30 ? 00:00:04 /usr/libexec/gnome-terminal-server
root 2842 2835 0 11:30 ? 00:00:00 gnome-pty-helper
root 2843 2835 0 11:30 pts/0 00:00:00 bash
root 2921 2 0 11:30 ? 00:00:00 [kworker/u256:0]
root 3024 1 0 11:37 ? 00:00:00 /usr/libexec/gvfsd-metadata
root 3031 2843 0 11:37 pts/0 00:00:00 /bin/sh /usr/bin/startx
root 3039 3031 0 11:37 pts/0 00:00:00 hostname -f
root 3735 2 0 12:10 ? 00:00:00 [kworker/u256:2]
root 4137 2 0 12:26 ? 00:00:00 [kworker/0:1]
root 4219 2 0 12:29 ? 00:00:00 [kworker/0:2]
root 4321 1 0 12:31 tty2 00:00:00 /sbin/agetty --noclear tty2 linux
root 4402 2 0 12:34 ? 00:00:00 [kworker/0:0]
root 4509 805 0 12:37 ? 00:00:00 sleep 60
root 4517 2843 0 12:37 pts/0 00:00:00 ps -ef
[root@server1 ~]#
```

```
Applications Places Terminal Tue 12:39
root@server1:~
File Edit View Search Terminal Help
root 2590 1 0 11:29 ? 00:00:00 /usr/libexec/evolution-calendar-factory
root 2608 2187 0 11:29 ? 00:00:00 nautilus-desktop --force
root 2620 2230 0 11:29 ? 00:00:00 /usr/libexec/gvfsd-trash --spawner :1.4 /org/gtk/gvfs/exec_spaw/0
root 2625 2590 0 11:29 ? 00:00:00 /usr/libexec/evolution-calendar-factory-subprocess --factory all --bus-name org.gnome.evolution.data
root 2633 2187 0 11:29 ? 00:00:01 /usr/bin/gnome-software --gapplication-service
root 2644 1 0 11:29 ? 00:00:00 /usr/libexec/dconf-service
root 2646 1 0 11:29 ? 00:00:06 /usr/bin/vmtoolsd -n vmusr
root 2656 1 0 11:29 ? 00:00:00 /usr/libexec/evolution-addressbook-factory
root 2657 2187 0 11:29 ? 00:00:00 /usr/libexec/tracker-extract
root 2663 2187 0 11:29 ? 00:00:00 /usr/libexec/tracker-miner-fs
root 2667 2187 0 11:29 ? 00:00:00 /usr/libexec/tracker-miner-apps
root 2680 2187 0 11:29 ? 00:00:00 /usr/libexec/tracker-miner-user-guides
root 2683 2387 0 11:29 ? 00:00:00 /usr/libexec/ibus-engine-simple
root 2695 1 0 11:29 ? 00:00:00 /usr/libexec/tracker-store
root 2699 2656 0 11:29 ? 00:00:00 /usr/libexec/evolution-addressbook-factory-subprocess --factory all --bus-name org.gnome.evolution.d
root 2701 2187 0 11:29 ? 00:00:00 abrt-applet
root 2708 2187 0 11:29 ? 00:00:00 /usr/bin/seapplet
root 2718 2187 0 11:29 ? 00:00:00 /usr/libexec/gsd-disk-utility-notify
root 2769 2230 0 11:30 ? 00:00:00 /usr/libexec/gvfsd-burn --spawner :1.4 /org/gtk/gvfs/exec_spaw/1
root 2789 1 0 11:30 ? 00:00:00 /usr/libexec/fwupd/fwupd
root 2835 1 0 11:30 ? 00:00:04 /usr/libexec/gnome-terminal-server
root 2842 2835 0 11:30 pts/0 00:00:00 gnome-pty-helper
root 2843 2835 0 11:30 pts/0 00:00:00 bash
root 2921 2 0 11:30 ? 00:00:00 [kworker/u256:0]
root 3024 1 0 11:37 ? 00:00:00 /usr/libexec/gvfsd-metadata
root 3031 2843 0 11:37 pts/0 00:00:00 /bin/sh /usr/bin/startx
root 3039 3031 0 11:37 pts/0 00:00:00 hostname -f
root 3735 2 0 12:10 ? 00:00:00 [kworker/u256:2]
root 4137 2 0 12:26 ? 00:00:00 [kworker/0:1]
root 4219 2 0 12:29 ? 00:00:00 [kworker/0:2]
root 4321 1 0 12:31 tty2 00:00:00 /sbin/agetty --noclear tty2 linux
root 4402 2 0 12:34 ? 00:00:00 [kworker/0:0]
root 4509 805 0 12:37 ? 00:00:00 sleep 60
root 4517 2843 0 12:37 pts/0 00:00:00 ps -ef
[root@server1 ~]#
```

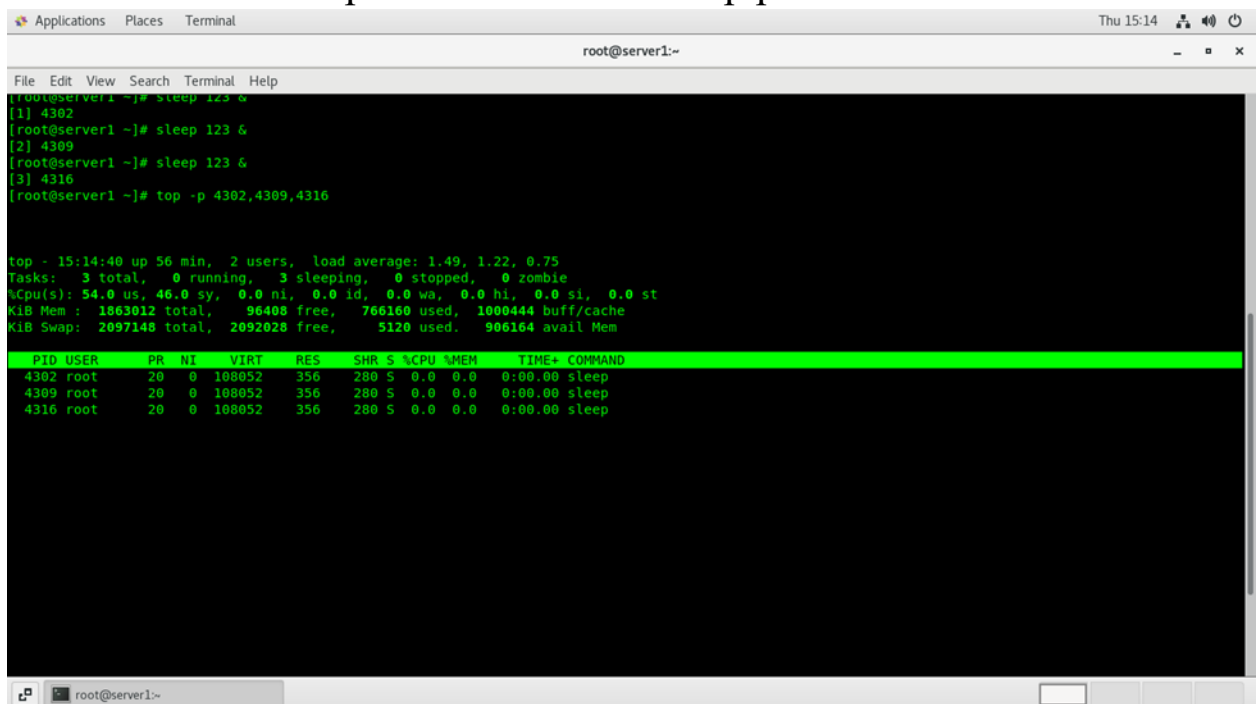
# ASSIGNMENT NO 3

4. Start 3 instances of “sleep 123” as background processes.



```
root@server1:~  
File Edit View Search Terminal Help  
[root@server1 ~]# sleep 123 &  
[1] 4302  
[root@server1 ~]# sleep 123 &  
[2] 4309  
[root@server1 ~]# sleep 123 &  
[3] 4316  
[root@server1 ~]# top -p 4302,4309,4316  
  
top - 15:14:40 up 56 min, 2 users, load average: 1.49, 1.22, 0.75  
Tasks: 3 total, 0 running, 3 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 54.0 us, 46.0 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
KiB Mem : 1863012 total, 96408 free, 766160 used, 1000444 buff/cache  
KiB Swap: 2097148 total, 2092028 free, 5120 used, 906164 avail Mem  
  
  PID USER      PR  NI   VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND  
  4302 root        20   0 108052    356    280 S   0.0   0.0   0:00.00 sleep  
  4309 root        20   0 108052    356    280 S   0.0   0.0   0:00.00 sleep  
  4316 root        20   0 108052    356    280 S   0.0   0.0   0:00.00 sleep
```

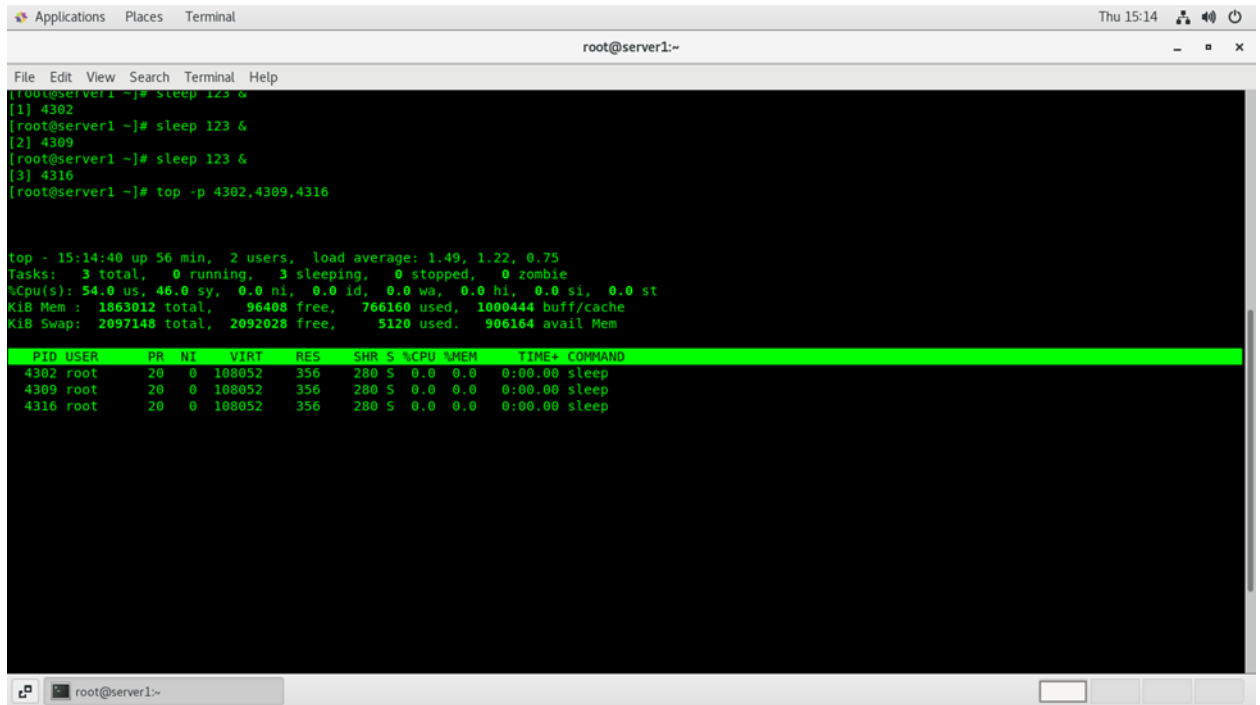
5. Check and note the process id’s of all sleep processes.



```
root@server1:~  
File Edit View Search Terminal Help  
[root@server1 ~]# sleep 123 &  
[1] 4302  
[root@server1 ~]# sleep 123 &  
[2] 4309  
[root@server1 ~]# sleep 123 &  
[3] 4316  
[root@server1 ~]# top -p 4302,4309,4316  
  
top - 15:14:40 up 56 min, 2 users, load average: 1.49, 1.22, 0.75  
Tasks: 3 total, 0 running, 3 sleeping, 0 stopped, 0 zombie  
%Cpu(s): 54.0 us, 46.0 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st  
KiB Mem : 1863012 total, 96408 free, 766160 used, 1000444 buff/cache  
KiB Swap: 2097148 total, 2092028 free, 5120 used, 906164 avail Mem  
  
  PID USER      PR  NI   VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND  
  4302 root        20   0 108052    356    280 S   0.0   0.0   0:00.00 sleep  
  4309 root        20   0 108052    356    280 S   0.0   0.0   0:00.00 sleep  
  4316 root        20   0 108052    356    280 S   0.0   0.0   0:00.00 sleep
```

# ASSIGNMENT NO 3

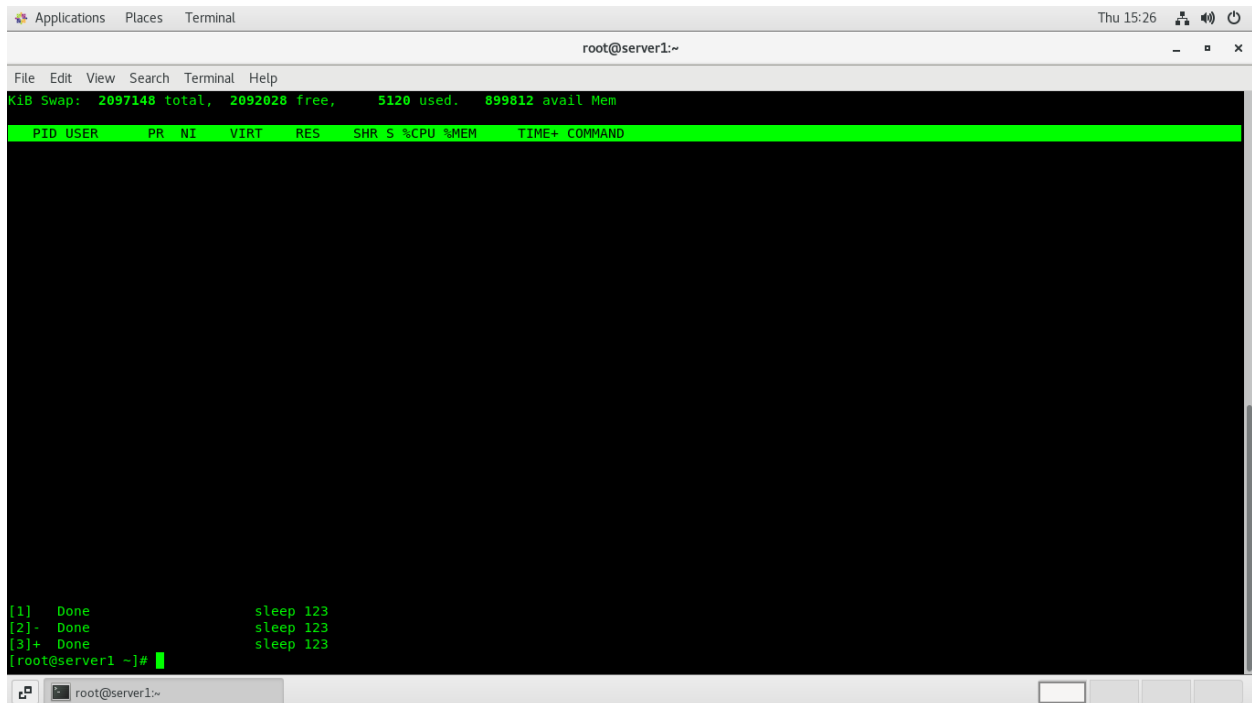
6. Display only those three sleep processes in top. Then quit top.



```
root@server1 ~]# sleep 123 &
[1] 4302
root@server1 ~]# sleep 123 &
[2] 4309
root@server1 ~]# sleep 123 &
[3] 4316
root@server1 ~]# top -p 4302,4309,4316

top - 15:14:40 up 56 min, 2 users, load average: 1.49, 1.22, 0.75
Tasks: 3 total, 0 running, 3 sleeping, 0 stopped, 0 zombie
%Cpu(s): 54.0 us, 46.0 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 1863012 total, 96408 free, 766160 used, 1000444 buff/cache
KiB Swap: 2097148 total, 2092028 free, 5120 used, 906164 avail Mem

  PID USER      PR  NI   VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND
 4302 root        20   0 108852    356    280 S   0.0   0.0   0:00.00 sleep
 4309 root        20   0 108852    356    280 S   0.0   0.0   0:00.00 sleep
 4316 root        20   0 108852    356    280 S   0.0   0.0   0:00.00 sleep
```



```
root@server1 ~]# top -p 4302,4309,4316

top - 15:26 up 56 min, 2 users, load average: 1.49, 1.22, 0.75
Tasks: 3 total, 0 running, 3 sleeping, 0 stopped, 0 zombie
%Cpu(s): 54.0 us, 46.0 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 1863012 total, 96408 free, 766160 used, 1000444 buff/cache
KiB Swap: 2097148 total, 2092028 free, 5120 used, 906164 avail Mem

  PID USER      PR  NI   VIRT    RES    SHR S  %CPU  %MEM    TIME+  COMMAND
 4302 root        20   0 108852    356    280 S   0.0   0.0   0:00.00 sleep
 4309 root        20   0 108852    356    280 S   0.0   0.0   0:00.00 sleep
 4316 root        20   0 108852    356    280 S   0.0   0.0   0:00.00 sleep

[1] Done
[2]- Done
[3]+ Done
root@server1 ~]#
```