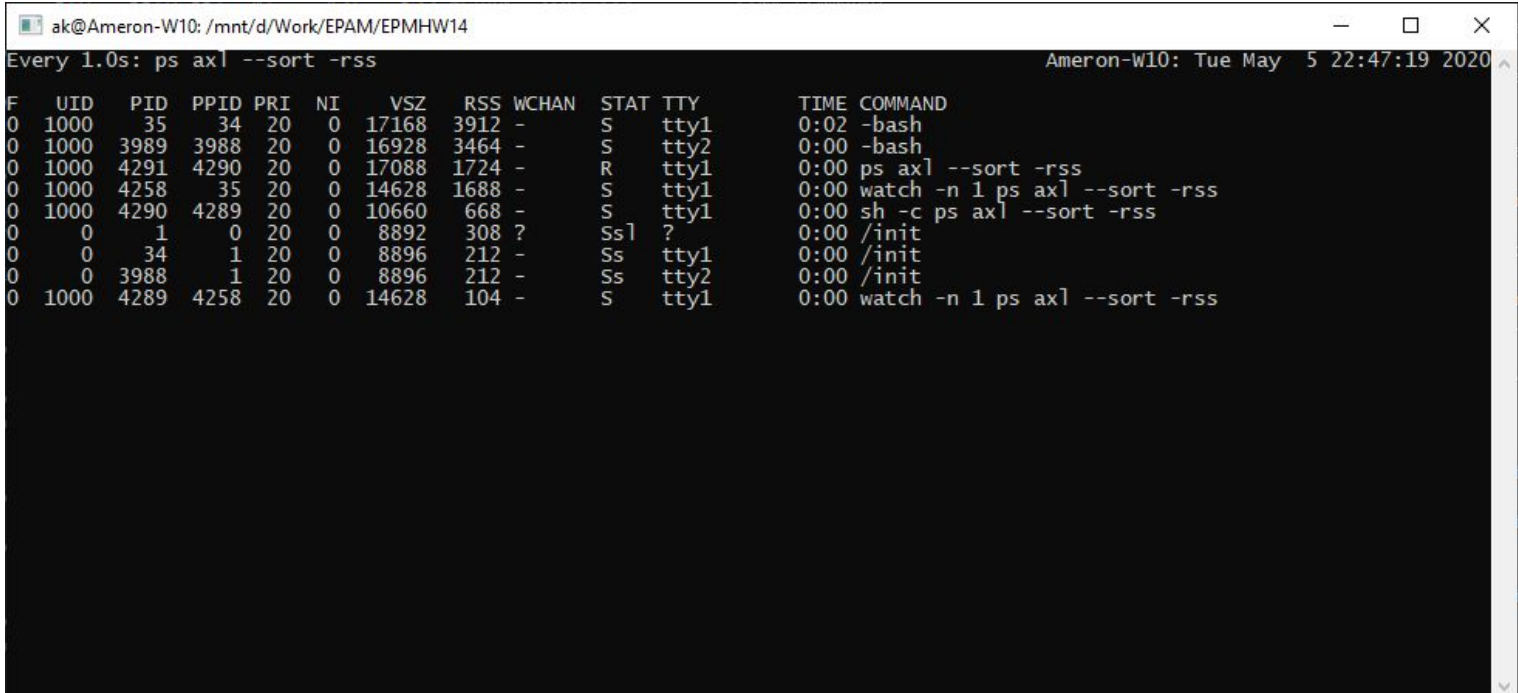


Homework 4.10
by Alexander Krupskiy

```
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.1.sh
Enter text: hello
Enter text: bye
Enter text: quit
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$
```

```
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.2.sh log.txt &
[1] 2864
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ jobs -l
[1]+  2864  Running                  ./script_4.10.2.sh log.txt &
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ fg
./script_4.10.2.sh log.txt
^Z
[1]+  Stopped                      ./script_4.10.2.sh log.txt
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ jobs -l
[1]+  2864  Stopped                  ./script_4.10.2.sh log.txt
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ bg
[1]+  ./script_4.10.2.sh log.txt &
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ jobs -l
[1]+  2864  Running                  ./script_4.10.2.sh log.txt &
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ps -a
  PID TTY          TIME CMD
   35 tty1      00:00:01 bash
  2864 tty1      00:00:01 script_4.10.2.s
 3218 tty1      00:00:00 sleep
 3219 tty1      00:00:00 ps
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ kill 2864
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ps -a
  PID TTY          TIME CMD
   35 tty1      00:00:01 bash
 3289 tty1      00:00:00 ps
[1]+  Terminated                  ./script_4.10.2.sh log.txt
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$
```



ak@Ameron-W10: /mnt/d/Work/EPAM/EPMHW14

Every 1.0s: ps axl --sort -rss

Ameron-W10: Tue May 5 22:47:19 2020

F	UID	PID	PPID	PRI	NI	VSZ	RSS	WCHAN	STAT	TTY	TIME	COMMAND
0	1000	35	34	20	0	17168	3912	-	S	tty1	0:02	-bash
0	1000	3989	3988	20	0	16928	3464	-	S	tty2	0:00	-bash
0	1000	4291	4290	20	0	17088	1724	-	R	tty1	0:00	ps axl --sort -rss
0	1000	4258	35	20	0	14628	1688	-	S	tty1	0:00	watch -n 1 ps axl --sort -rss
0	1000	4290	4289	20	0	10660	668	-	S	tty1	0:00	sh -c ps axl --sort -rss
0	0	1	0	20	0	8892	308	?	Ss	?	0:00	/init
0	0	34	1	20	0	8896	212	-	Ss	tty1	0:00	/init
0	0	3988	1	20	0	8896	212	-	Ss	tty2	0:00	/init
0	1000	4289	4258	20	0	14628	104	-	S	tty1	0:00	watch -n 1 ps axl --sort -rss

```
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ renice -n 2 -p 35
35 (process ID) old priority 0, new priority 2
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$
```

```
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ watch -n 1 ps axl --sort -rss
Every 1.0s: ps axl --sort -rss
Ameron-W10: Tue May  5 22:50:30 2020
```

F	UID	PID	PPID	PRI	NI	VSZ	RSS	WCHAN	STAT	TTY	TIME	COMMAND
0	1000	35	34	18	4294	967294	17168	3912 -	SN	tty1	0:02	-bash
0	1000	3989	3988	20	0	16928	3468	-	S	tty2	0:00	-bash
0	0	4850	4849	20	0	17020	2224	-	S	tty2	0:00	sudo renice -n -2 -p 35
0	1000	4294	4493	20	0	14628	1692	-	S	tty1	0:02	watch -n 1 ps axl --sort -rss
0	1000	4849	4848	20	0	10660	672	-	S	tty1	0:00	sh -c ps axl --sort -rss
0	0	93	4492	20	0	8892	372	?	Ssl	?	0:00	/init
0	0	34	1	20	0	8896	212	-	Ss	tty1	0:00	/init
0	0	3988	1	20	0	8896	212	-	Ss	tty2	0:00	/init
0	1000	4848	4258	20	0	14628	104	-	S	tty1	0:00	watch -n 1 ps axl --sort -rss

```
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.5.sh
Script usage: ./script_4.10.5.sh [integer_1]...[integer_N]
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.5.sh 4 -2 -6 f
Error! One of the parameter is not integer!
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.5.sh 4 -2 -6
Result is: 16 4 36
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$
```

```
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.6.sh
Script usage: ./script_4.10.6.sh <integer_A> <integer_B> <integer_C>
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.6.sh 0 8 8
Parameter A couldn't be 0!
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.6.sh 1 c 8
Error! One of the parameter is not integer!
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.6.sh 1 2 8
Result of simple linear equation ax+b=c is 6
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$
```

```
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.7.sh
Script usage: ./script_4.10.7.sh <filename>
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ ./script_4.10.7.sh ./user.log &
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ cat ./user.log
New username is root, UID=0
New username is daemon, UID=1
New username is bin, UID=2
New username is sys, UID=3
New username is sync, UID=4
New username is games, UID=5
New username is man, UID=6
New username is lp, UID=7
New username is mail, UID=8
New username is news, UID=9
New username is uucp, UID=10
New username is proxy, UID=13
```

```
New username is www-data, UID=33
New username is backup, UID=34
New username is list, UID=38
New username is irc, UID=39
New username is gnats, UID=41
New username is nobody, UID=65534
New username is systemd-network, UID=100
New username is systemd-resolve, UID=101
New username is syslog, UID=102
New username is messagebus, UID=103
New username is _apt, UID=104
New username is lxd, UID=105
New username is uucdd, UID=106
New username is dnsmasq, UID=107
New username is landscape, UID=108
New username is sshd, UID=109
New username is pollinate, UID=110
New username is ak, UID=1000
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ sudo useradd -s /bin/bash test
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$ cat ./user.log
New username is root, UID=0
New username is daemon, UID=1
New username is bin, UID=2
New username is sys, UID=3
New username is sync, UID=4
New username is games, UID=5
New username is man, UID=6
New username is lp, UID=7
New username is mail, UID=8
New username is news, UID=9
New username is uucp, UID=10
New username is proxy, UID=13
New username is www-data, UID=33
New username is backup, UID=34
New username is list, UID=38
New username is irc, UID=39
New username is gnats, UID=41
New username is nobody, UID=65534
New username is systemd-network, UID=100
New username is systemd-resolve, UID=101
New username is syslog, UID=102
New username is messagebus, UID=103
New username is _apt, UID=104
New username is lxd, UID=105
New username is uucdd, UID=106
New username is dnsmasq, UID=107
New username is landscape, UID=108
New username is sshd, UID=109
New username is pollinate, UID=110
New username is ak, UID=1000
New username is test, UID=1001
ak@Ameron-W10:/mnt/d/Work/EPAM/EPMHW14$
```