

1.

```
eltex-pg1-v7@eltex-2025-summer: ~  
login as: eltex-pg1-v7  
eltex-pg1-v7@217.71.138.1's password:  
Linux eltex-2025-summer 6.1.0-40-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.153-1  
2025-09-20) x86_64  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Thu Oct  9 17:29:53 2025 from 217.71.139.234  
eltex-pg1-v7@eltex-2025-summer:~$
```

2.

```
eltex-pg1-v7@eltex-2025-summer:~$ screen
```

```
eltex-pg1-v7@eltex-2025-summer: ~  
GNU Screen version 4.09.00 (GNU) 30-Jan-22  
  
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[Press Space for next page; Return to end.]
```

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Send bugreports, fixes, enhancements, t-shirts, money, beer & pizza to  
screen-devel@gnu.org

Capabilities:

+copy +remote-detach +power-detach +multi-attach +multi-user +font +color-256  
+utf8 +rxvt +builtin-telnet

eltex-pgl-v7@eltex-2025-summer:~\$ w

23:10:49 up 7:33, 35 users, load average: 1.11, 0.63, 0.44

USER	TTY	FROM	LOGIN@	IDLE	JCPU	PCPU	WHAT
tech	pts/0	37.193.179.176	15:39	6:29m	0.02s	0.02s	sshd: tech [pri
eltex-pg	pts/2	:pts/43:S.0	18:38	4:23m	0.00s	0.02s	SCREEN -S n -d
eltex-pg	pts/4	:pts/124:S.0	21:00	2:10m	0.00s	0.02s	SCREEN -S \$elte
eltex-pg	pts/7	:pts/105:S.0	20:51	2:10m	0.01s	?	SCREEN -S whoam
eltex-pg	pts/10	5.137.217.115	21:40	1:18	0.01s	0.01s	screen
eltex-pg	pts/11	:pts/10:S.0	22:02	33:08	0.00s	?	screen -r 18984
eltex-pg	pts/15	90.189.209.31	19:08	4:02m	0.01s	0.01s	-bash
eltex-pg	pts/22	:pts/42:S.0	17:59	5:09m	0.21s	0.03s	SCREEN -S top -
eltex-pg	pts/29	212.164.39.21	22:53	16:47	0.00s	?	-bash
eltex-pg	pts/32	:pts/11:S.0	22:19	33:08	0.00s	?	SCREEN -S top -
eltex-pg	pts/40	5.137.217.115	22:37	33:29	0.00s	?	-bash
eltex-pg	pts/44	:pts/135:S.1	20:40	2:12m	25.64s	25.64s	script -f -q el
eltex-pg	pts/47	:pts/10:S.1	23:01	4:48	0.00s	?	/usr/bin/bash
eltex-pg	pts/49	:pts/36:S.0	18:44	5:13m	0.00s	1.19s	SCREEN
eltex-pg	pts/51	:pts/83:S.0	23:09	1.00s	0.09s	0.09s	w
eltex-pg	pts/53	:pts/36:S.1	18:44	5:10m	0.00s	?	/usr/bin/bash
eltex-pg	pts/65	:pts/183:S.0	20:21	2:09m	0.34s	0.08s	SCREEN -S new_s
eltex-pg	pts/50	:pts/120:S.0	19:55	2:58m	0.00s	?	/usr/bin/bash
eltex-pg	pts/72	:pts/36:S.2	18:44	5:09m	0.00s	?	/usr/bin/bash
eltex-pg	pts/73	:pts/36:S.3	18:44	5:08m	0.00s	?	/usr/bin/bash
eltex-pg	pts/77	:pts/36:S.4	18:44	4:41m	0.00s	?	/usr/bin/bash
eltex-pg	pts/82	:pts/36:S.5	18:44	5:01m	0.00s	?	/usr/bin/bash
eltex-pg	pts/83	95.104.184.216	22:41	1.00s	0.01s	?	screen
eltex-pg	pts/86	188.162.14.215	20:30	2:09m	0.01s	?	screen -r 85552
eltex-pg	pts/110	:pts/36:S.6	18:44	4:47m	28.89s	28.89s	top
eltex-pg	pts/116	:pts/36:S.7	18:44	4:42m	27.96s	27.96s	top
eltex-pg	pts/117	:pts/139:S.0	19:51	3:17m	0.00s	?	SCREEN -S top
eltex-pg	pts/134	:pts/180:S.0	20:12	2:39m	0.00s	?	SCREEN -S top -
eltex-pg	pts/135	89.113.137.168	20:25	2:12m	0.01s	?	screen -S whoam
eltex-pg	pts/141	:pts/56:S.0	20:32	2:15m	0.01s	0.01s	SCREEN -S top
eltex-pg	pts/148	:pts/119:S.0	20:14	2:54m	0.01s	0.01s	vi report_part1
eltex-pg	pts/181	91.79.221.98	20:40	2:06m	0.01s	0.01s	-bash
eltex-pg	pts/169	:pts/135:S.0	20:32	2:30m	0.00s	60.91s	SCREEN -S whoam
eltex-pg	pts/183	:pts/86:S.0	20:32	2:09m	0.01s	0.01s	screen -S new_s
eltex-pg	pts/185	:pts/86:S.1	20:32	2:48m	0.00s	?	/usr/bin/bash

eltex-pgl-v7@eltex-2025-summer:~\$

```
eltex-pgl-v7@eltex-2025-summer:~$ screen
[detached from 290839.pts-11.eltex-2025-summer]
eltex-pgl-v7@eltex-2025-summer:~$
```

3.

```

eltex-pgl-v7@eltex-2025-summer:~$ screen -ls
There are screens on:
      290839.pts-ll.eltex-2025-summer (10/10/2025 12:22:56 AM)      (Detache
d)
      234390.pts-83.eltex-2025-summer (10/09/2025 11:09:58 PM)      (Attache
d)
2 Sockets in /run/screen/S-eltex-pgl-v7.
eltex-pgl-v7@eltex-2025-summer:~$ screen -r 290839

```

```

top - 00:37:45 up 9:00, 24 users, load average: 0.07, 0.08, 0.03
Tasks: 479 total, 1 running, 451 sleeping, 27 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.6 sy, 0.0 ni, 98.9 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st
MiB Mem : 3914.7 total, 883.0 free, 954.9 used, 2319.2 buff/cache
MiB Swap: 976.0 total, 958.6 free, 17.4 used, 2959.8 avail Mem

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
503	root	20	0	80248	3640	3364	S	0.3	0.1	0:07.26	qemu-ga
5436	eltex-p+	20	0	11652	4996	2848	S	0.3	0.1	0:36.97	top
9084	eltex-p+	20	0	11640	5028	2880	S	0.3	0.1	0:35.31	top
68021	eltex-p+	20	0	11640	5088	2944	S	0.3	0.1	0:28.23	top
68306	eltex-p+	20	0	11640	4916	2764	S	0.3	0.1	0:29.05	top
69852	eltex-p+	20	0	11640	4908	2752	S	0.3	0.1	0:27.62	top
89764	eltex-p+	20	0	11652	5060	2908	S	0.3	0.1	0:25.27	top
119713	eltex-p+	20	0	11640	4928	2776	S	0.3	0.1	0:24.91	top
290226	eltex-p+	20	0	11640	5492	3344	S	0.3	0.1	0:01.62	top
1	root	20	0	168828	11828	7636	S	0.0	0.3	0:01.68	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	slub_flushwq
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
11	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_kthread
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
14	root	20	0	0	0	0	S	0.0	0.0	0:00.79	ksoftirqd/0
15	root	20	0	0	0	0	I	0.0	0.0	0:04.70	rcu_preempt
16	root	rt	0	0	0	0	S	0.0	0.0	0:00.08	migration/0
18	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
20	root	rt	0	0	0	0	S	0.0	0.0	0:00.29	migration/1
21	root	20	0	0	0	0	S	0.0	0.0	0:00.50	ksoftirqd/1
23	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/1:0H-events_highpri
24	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/2
25	root	rt	0	0	0	0	S	0.0	0.0	0:00.29	migration/2
26	root	20	0	0	0	0	S	0.0	0.0	0:00.45	ksoftirqd/2
28	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/2:0H-events_highpri
29	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/3
30	root	rt	0	0	0	0	S	0.0	0.0	0:00.29	migration/3
31	root	20	0	0	0	0	S	0.0	0.0	0:00.45	ksoftirqd/3
33	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/3:0H-events_highpri
38	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
39	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	inet_frag_wq
40	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kauditd
41	root	20	0	0	0	0	S	0.0	0.0	0:00.01	khungtaskd
42	root	20	0	0	0	0	S	0.0	0.0	0:00.00	oom_reaper
43	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	writeback
44	root	20	0	0	0	0	S	0.0	0.0	0:00.50	kcompactd0
45	root	25	5	0	0	0	S	0.0	0.0	0:00.00	ksmd
47	root	39	19	0	0	0	S	0.0	0.0	0:00.34	khugepaged

```

eltex-pgl-v7@eltex-2025-summer:~$ screen -ls
There is a screen on:
      290839.top      (10/10/2025 12:22:56 AM)      (Attached)
1 Socket in /run/screen/S-eltex-pgl-v7.

```

```
eltex-pgl-v7@eltex-2025-summer:~$ screen -r 290839
[detached from 290839.top]
eltex-pgl-v7@eltex-2025-summer:~$ screen -ls
There is a screen on:
      290839.top      (10/10/2025 12:22:56 AM)      (Detached)
1 Socket in /run/screen/S-eltex-pgl-v7.
```

4.

```
eltex-pgl-v7@eltex-2025-autumn:~$ screen -ls
There is a screen on:
      290839.top      (10/10/2025 12:22:55 AM)      (Detached)
1 Socket in /run/screen/S-eltex-pgl-v7.
```

5.

```
eltex-pgl-v7@eltex-2025-autumn:~$ screen -r top
```

6.

```
0$ bash 1-$ bash 2*$ bash
```

7-8.

```
eltex-pgl-v7@eltex-2025-autumn:~$ /usr/bin/vmstat
procs -----memory----- ---swap-- -----io----- -system-- -----cpu-----
 r  b   swpd   free   buff  cache   si   so    bi    bo    in   cs us sy id wa st
 2   0   15480 663780 109556 2542356    0    0     2    10   86  206  0  0 99  0  0
eltex-pgl-v7@eltex-2025-autumn:~$
```

9.

```
0$ bash 1-$ bash 2*$ bash
```

10.

```
0$ bash 1-$ bash 2*$ vmstat
```

11.

```

top - 22:04:47 up 2 days, 6:27, 21 users, load average: 0.00, 0.00, 0.00
Tasks: 437 total, 2 running, 414 sleeping, 21 stopped, 0 zombie
%Cpu(s):100.0 us, 0.0 sy, 0.0 ni, 0.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3914.7 total, 643.5 free, 963.9 used, 2590.7 buff/cache
MiB Swap: 976.0 total, 960.9 free, 15.1 used, 2950.7 avail Mem

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
71578	eltex-p+	20	0	11640	5032	2880	S	100.0	0.1	4:03.73	top
1	root	20	0	168828	11884	7692	S	0.0	0.3	0:02.55	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.02	kthreadd
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_gp
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	rcu_par_gp
5	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	slub_flushwq
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	netns
10	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	mm_percpu_wq
11	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_kthread
12	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_rude_kthread
13	root	20	0	0	0	0	I	0.0	0.0	0:00.00	rcu_tasks_trace_kthread
14	root	20	0	0	0	0	S	0.0	0.0	0:04.08	ksoftirqd/0
15	root	20	0	0	0	0	I	0.0	0.0	0:14.79	rcu_preempt
16	root	rt	0	0	0	0	S	0.0	0.0	0:00.59	migration/0
18	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/0
19	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/1
20	root	rt	0	0	0	0	S	0.0	0.0	0:00.80	migration/1
21	root	20	0	0	0	0	S	0.0	0.0	0:03.27	ksoftirqd/1
23	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/1:0H-events_highpri
24	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/2
25	root	rt	0	0	0	0	S	0.0	0.0	0:00.78	migration/2
26	root	20	0	0	0	0	S	0.0	0.0	0:03.02	ksoftirqd/2
28	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/2:0H-events_highpri
29	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuhp/3
30	root	rt	0	0	0	0	S	0.0	0.0	0:00.79	migration/3
31	root	20	0	0	0	0	S	0.0	0.0	0:03.02	ksoftirqd/3
33	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kworker/3:0H-events_highpri
38	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kdevtmpfs
39	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	inet_frag_wq
40	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kauditd
41	root	20	0	0	0	0	S	0.0	0.0	0:00.08	khungtaskd
42	root	20	0	0	0	0	S	0.0	0.0	0:00.00	oom_reaper
43	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	writeback
44	root	20	0	0	0	0	S	0.0	0.0	0:02.91	kcompactd0
45	root	25	5	0	0	0	S	0.0	0.0	0:00.00	ksmd
47	root	39	19	0	0	0	S	0.0	0.0	0:01.83	khugepaged
48	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kintegrityd
49	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	kblockd
50	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	blkcg_punt_bio
51	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	tpm_dev_wq
52	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	edac-poller
53	root	0	-20	0	0	0	I	0.0	0.0	0:00.00	devfreq_wq
54	root	0	-20	0	0	0	I	0.0	0.0	0:00.29	kworker/1:1H-kblockd
55	root	20	0	0	0	0	S	0.0	0.0	0:01.09	kswapd0

12.

```

eltex-pgl-v7@eltex-2025-autumn:~$ screen -ls
There is a screen on:
      290839.top      (10/10/2025 12:22:55 AM)      (Detached)
1 Socket in /run/screen/S-eltex-pgl-v7.

```

13.

```

eltex-pgl-v7@eltex-2025-autumn:~$ screen -ls
There are screens on:
      2227441.pts-76.eltex-2025-autumn      (10/11/2025 10:14:50 PM)
Attached)
      290839.top      (10/10/2025 12:22:56 AM)      (Detached)
2 Sockets in /run/screen/S-eltex-pgl-v7.

```



```
eltex-pgl-v7@eltex-2025-autumn:~$ vi report_part1.txt
```

14.

```
eltex-pgl-v7@eltex-2025-autumn:~$ screen -ls
There are screens on:
      2227441.pts-76.eltex-2025-autumn      (10/11/2025 10:14:50 PM)
Detached)
      290839.top      (10/10/2025 12:22:56 AM)      (Detached)
2 Sockets in /run/screen/S-eltex-pgl-v7.
```

15.

```
login as: eltex-pgl-v7
eltex-pgl-v7@217.71.138.1's password:
Linux eltex-2025-autumn 6.1.0-40-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.153-1 (
2025-09-20) x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sat Oct 11 21:26:45 2025 from 95.104.184.127
eltex-pgl-v7@eltex-2025-autumn:~$
```

16.

```
eltex-pgl-v7@eltex-2025-autumn:~$ screen -ls
There are screens on:
      2227441.pts-76.eltex-2025-autumn      (10/11/2025 10:14:50 PM)      (
Detached)
      290839.top      (10/10/2025 12:22:56 AM)      (Detached)
2 Sockets in /run/screen/S-eltex-pgl-v7.
```

17.

```
eltex-pgl-v7@eltex-2025-autumn:~$ screen -ls
There are screens on:
      2227441.pts-76.eltex-2025-autumn      (10/11/2025 10:14:50 PM)
Attached)
      290839.top      (10/10/2025 12:22:56 AM)      (Detached)
2 Sockets in /run/screen/S-eltex-pgl-v7.
```

```
eltex-pgl-v7@eltex-2025-autumn:~$ cat report_part1.txt
Генинг Даниил Константинович часть 1 модуля 1 успешно завершена.
Дата: 11.10.2025, Время: 22:27
eltex-pgl-v7@eltex-2025-autumn:~$
```

18.

```
eltex-pgl-v7@eltex-2025-autumn:~$ screen -S 2227441.pts-76.eltex-2025-autumn -X
quit
eltex-pgl-v7@eltex-2025-autumn:~$ screen -S 290839.top -X quit
eltex-pgl-v7@eltex-2025-autumn:~$ screen -ls
No Sockets found in /run/screen/S-eltex-pgl-v7.
```

## 2 Раздел:

1.

```
eltex-pgl-v7@eltex-2025-autumn:~$ screen -ls
There is a screen on:
      2999594.whoami_part2      (10/12/2025 06:16:42 PM)      (Attached)
1 Socket in /run/screen/S-eltex-pgl-v7.
```

```
eltex-pgl-v7@eltex-2025-autumn:~$ ls
eltex-pgl-v7_part.log  report_part1.txt
```

2.



```
eltex-pgl-v7@eltex-2025-autumn:~$ ls
ls          lsb_release  lsinitramfs  lslocks      lsmod        lspci
lsattr      lscpu        lsipc        lslogins     lens         lsusb
lsblk       lsfd         lsirq        lsmem        lsosf
```

3.

```
eltex-pgl-v7@eltex-2025-autumn:~$ compgen -v HIST
HISTCMD
HISTCONTROL
HISTFILE
HISTFILESIZE
HISTSIZE
```

4.

```
eltex-pgl-v7@eltex-2025-autumn:~$ echo $HISTSIZE
1000
```

5.

```
eltex-pgl-v7@eltex-2025-autumn:~$ ls -d ~/.[c]*
/home/eltex-pgl-v7/.config
```

6.

```
* for setting history length see
HISTSIZE=1000
HISTFILESIZE=2000
export HISTTIMEFORMAT="%F %T: "
```

```

95 2025-10-12 18:16:43: vi ~/.bashrc
96 2025-10-12 18:16:43: cat ~/.bashrc
97 2025-10-12 18:16:43: vi ~/.bashrc
98 2025-10-12 18:16:43: source ~/.bashrc
99 2025-10-12 18:16:43: alias ls
100 2025-10-12 18:16:43: alias grep
101 2025-10-12 18:16:43: screen -ls
102 2025-10-12 18:16:43: ls
103 2025-10-12 18:16:43: cat eltex-pgl-v7_part.log
104 2025-10-12 18:16:43: ls
105 2025-10-12 18:16:43: tail -50 ~/eltex-pgl-v7_part.log
106 2025-10-12 18:16:43: ls
107 2025-10-12 18:16:43: ls
108 2025-10-12 18:16:43: [M ^3#^3q!
109 2025-10-12 18:16:43: :q!
110 2025-10-12 18:16:43: [
111 2025-10-12 18:16:43: ls
112 2025-10-12 18:16:43: pwd
113 2025-10-12 18:16:43: exit
114 2025-10-12 18:17:22: pwd
115 2025-10-12 18:17:27: ls
116 2025-10-12 18:17:37: screen -ls
117 2025-10-12 18:18:25: vi ~/.bashrc
118 2025-10-12 18:18:49: alias ls
119 2025-10-12 18:18:55: alias grep
120 2025-10-12 18:19:25: clear
121 2025-10-12 18:21:49: alias ls
122 2025-10-12 18:21:53: alias grep
123 2025-10-12 18:22:24: screen -ls
124 2025-10-12 18:27:01: ls
125 2025-10-12 18:30:47: tail -10 eltex-pgl-v7_part.log
126 2025-10-12 18:32:10: clear
127 2025-10-12 18:32:15: tail -10 eltex-pgl-v7_part.log
128 2025-10-12 18:32:22: ls
129 2025-10-12 18:32:28: screen -ls
130 2025-10-12 18:32:30: pwd
131 2025-10-12 18:32:34: tail -10 eltex-pgl-v7_part.log
132 2025-10-12 18:32:52: pwd
133 2025-10-12 18:32:54: tail -10 eltex-pgl-v7_part.log
134 2025-10-12 19:11:00: compgen -v HIST
135 2025-10-12 19:17:14: echo $HISTSIZE
136 2025-10-12 19:21:09: ls -d ~/.[c]*
137 2025-10-12 19:37:53: vi ~/.bashrc
138 2025-10-12 19:40:14: source ~/.bashrc
139 2025-10-12 19:41:16: history
140 2025-10-12 19:41:48: vi ~/.bashrc
141 2025-10-12 19:42:05: source ~/.bashrc
142 2025-10-12 19:42:07: history
143 2025-10-12 19:42:14: vi ~/.bashrc
144 2025-10-12 19:42:33: history

```

7.

```

147 2025-10-12 20:01:16: date
148 2025-10-12 20:01:19: history

```

```
eltex-pgl-v7@eltex-2025-autumn:~$ tail -3 ~/.bash_history
ls
pwd
exit
```

```
eltex-pgl-v7@eltex-2025-autumn:~$ history | tail -3
152 2025-10-12 20:32:14: history
153 2025-10-12 20:32:48: tail -3 ~/.bash_history
154 2025-10-12 20:33:10: history | tail -3
```

```
eltex-pgl-v7@eltex-2025-autumn:~$ date
Sun Oct 12 08:34:21 PM +07 2025
eltex-pgl-v7@eltex-2025-autumn:~$ history | tail -3
155 2025-10-12 20:34:13: source ~/.bashrc
156 2025-10-12 20:34:21: date
157 2025-10-12 20:34:48: history | tail -3
```

```
eltex-pgl-v7@eltex-2025-autumn:~$ tail -3 ~/.bash_history
date
#1760276088
history | tail -3
```

```
HISTSIZE=5000
HISTFILESIZE=5000
export HISTTIMEFORMAT="%F %T: "

#momentaly save comands
PROMPT_COMMAND='history -a'
```

10.

```
eltex-pgl-v7@eltex-2025-autumn:~$ DATE=$(date +%Y/%m/%d)
eltex-pgl-v7@eltex-2025-autumn:~$ echo ${DATE}
2025/10/12
```

11.

```
eltex-pgl-v7@eltex-2025-autumn:~$ TIME=$(date +%H:%M:%S)
eltex-pgl-v7@eltex-2025-autumn:~$ echo ${TIME}
22:16:09
```

12.

```
eltex-pgl-v7@eltex-2025-autumn:~$ echo $DATE_TIME="${DATE} ${TIME}"
=2025/10/12 22:16:09
```

13.

```
/bin/x86_64-linux-gnu-gcc-ranlib-12
/bin/x86_64-linux-gnu-gcov
/bin/x86_64-linux-gnu-gcov-12
/bin/x86_64-linux-gnu-gcov-dump
/bin/x86_64-linux-gnu-gcov-dump-12
/bin/x86_64-linux-gnu-gcov-tool
/bin/x86_64-linux-gnu-gcov-tool-12
/bin/x86_64-linux-gnu-gold
/bin/x86_64-linux-gnu-gp-archive
/bin/x86_64-linux-gnu-gp-collect-app
/bin/x86_64-linux-gnu-gp-display-html
/bin/x86_64-linux-gnu-gp-display-src
/bin/x86_64-linux-gnu-gp-display-text
/bin/x86_64-linux-gnu-gprof
/bin/x86_64-linux-gnu-gprofng
/bin/x86_64-linux-gnu-ld
/bin/x86_64-linux-gnu-ld.bfd
/bin/x86_64-linux-gnu-ld.gold
/bin/x86_64-linux-gnu-lto-dump
/bin/x86_64-linux-gnu-lto-dump-12
/bin/x86_64-linux-gnu-nm
/bin/x86_64-linux-gnu-objcopy
/bin/x86_64-linux-gnu-objdump
/bin/x86_64-linux-gnu-ranlib
/bin/x86_64-linux-gnu-readelf
/bin/x86_64-linux-gnu-size
/bin/x86_64-linux-gnu-strings
/bin/x86_64-linux-gnu-strip
/sbin/dumpe2fs
/sbin/e2freefrag
/sbin/e2fsck
/sbin/e2image
/sbin/e2label
/sbin/e2nmpstatus
/sbin/e2scrub
/sbin/e2scrub_all
/sbin/e2undo
/sbin/e4crypt
/sbin/e4defrag
/sbin/fsck.ext2
/sbin/fsck.ext3
/sbin/fsck.ext4
/sbin/killall5
/sbin/mke2fs
/sbin/mkfs.ext2
/sbin/mkfs.ext3
/sbin/mkfs.ext4
/sbin/resize2fs
/sbin/tune2fs
/sbin/update-grub2
eltex-pgl-v7@eltex-2025-autumn:~$ ls /bin/* /sbin/* | grep -E '^[^/]*[0-9][^/]*$'
```

```
x86_64-linux-gnu-gcc-ranlib-12
x86_64-linux-gnu-gcov
x86_64-linux-gnu-gcov-12
x86_64-linux-gnu-gcov-dump
x86_64-linux-gnu-gcov-dump-12
x86_64-linux-gnu-gcov-tool
x86_64-linux-gnu-gcov-tool-12
x86_64-linux-gnu-gold
x86_64-linux-gnu-gp-archive
x86_64-linux-gnu-gp-collect-app
x86_64-linux-gnu-gp-display-html
x86_64-linux-gnu-gp-display-src
x86_64-linux-gnu-gp-display-text
x86_64-linux-gnu-gprof
x86_64-linux-gnu-gprofng
x86_64-linux-gnu-ld
x86_64-linux-gnu-ld.bfd
x86_64-linux-gnu-ld.gold
x86_64-linux-gnu-lto-dump
x86_64-linux-gnu-lto-dump-12
x86_64-linux-gnu-nm
x86_64-linux-gnu-objcopy
x86_64-linux-gnu-objdump
x86_64-linux-gnu-ranlib
x86_64-linux-gnu-readelf
x86_64-linux-gnu-size
x86_64-linux-gnu-strings
x86_64-linux-gnu-strip
dumpe2fs
e2freefrag
e2fsck
e2image
e2label
e2nmpstatus
e2scrub
e2scrub_all
e2undo
e4crypt
e4defrag
fsck.ext2
fsck.ext3
fsck.ext4
killall5
mke2fs
mkfs.ext2
mkfs.ext3
mkfs.ext4
resize2fs
tune2fs
update-grub2
eltex-pgl-v7@eltex-2025-autumn:~$ ls /bin/ /sbin/ | grep '[0-9]'
```

14.

```
eltex-pgl-v7@eltex-2025-autumn-00:09>PS1='\u@\h-$(date "+%H:%M")> '
eltex-pgl-v7@eltex-2025-autumn-00:09> ls
eltex-pgl-v7_part.log  report_part1.txt
eltex-pgl-v7@eltex-2025-autumn-00:09>
```

15.

```
# invitation in bash
PS1='\u@\h-$(date "+%H:%M")> '
```

```
eltex-pgl-v7@eltex-2025-autumn-22:08>
```

16.

```
eltex-pgl-v7@eltex-2025-autumn-22:56> mkdir -p ~/ "$(date +%Y)"-{01..12}
eltex-pgl-v7@eltex-2025-autumn-22:57> ls
2025-01  2025-03  2025-05  2025-07  2025-09  2025-11  eltex-pgl-v7_part.log
2025-02  2025-04  2025-06  2025-08  2025-10  2025-12  report_part1.txt
```

### 3 раздел

1.

```
eltex-pgl-v7@eltex-2025-autumn-23:23> touch ${USER}_part3.log
eltex-pgl-v7@eltex-2025-autumn-23:24> ls
2025-01  2025-04  2025-07  2025-10  eltex-pgl-v7_part3.log
2025-02  2025-05  2025-08  2025-11  eltex-pgl-v7_part.log
2025-03  2025-06  2025-09  2025-12  report_part1.txt
eltex-pgl-v7@eltex-2025-autumn-23:24> echo "ls" >> eltex-pgl-v7_part3.log
eltex-pgl-v7@eltex-2025-autumn-23:26> cat eltex-pgl-v7_part3.log
ls
eltex-pgl-v7@eltex-2025-autumn-23:26>
```

2.

```
eltex-pgl-v7@eltex-2025-autumn-23:40> ls D1 ~/D1/D2
D1:
D2

/home/eltex-pgl-v7/D1/D2:
D3
eltex-pgl-v7@eltex-2025-autumn-23:40> cat eltex-pgl-v7_part3.log
ls
mkdir -p D1/D2/D3
```



3.

```
eltex-pgl-v7@eltex-2025-autumn-23:43> cd D1/D2
eltex-pgl-v7@eltex-2025-autumn-23:43> pwd
/home/eltex-pgl-v7/D1/D2
eltex-pgl-v7@eltex-2025-autumn-23:43> touch file.txt
eltex-pgl-v7@eltex-2025-autumn-23:43> ls
D3  file.txt
```

4.

```
eltex-pgl-v7@eltex-2025-autumn-23:59> cat file.txt
Генинг Даниил, 1 модуль 3 раздел
```

5.

```
eltex-pgl-v7@eltex-2025-autumn-00:16> ln file.txt D3/hardlink.txt
eltex-pgl-v7@eltex-2025-autumn-00:16> ls
D3  file.txt
```

```
ln -s /home/eltex-pgl-v7/D1/D2/file.txt /home/eltex-pgl-v7/D1/D2/D3/softlink.txt
eltex-pgl-v7@eltex-2025-autumn-00:43> cd D1/D2/D3
eltex-pgl-v7@eltex-2025-autumn-00:44> ls
hardlink.txt  softlink.txt
```

6.

```
eltex-pgl-v7@eltex-2025-autumn-00:44> cat hardlink.txt
Генинг Даниил, 1 модуль 3 раздел
eltex-pgl-v7@eltex-2025-autumn-00:45> cat softlink.txt
Генинг Даниил, 1 модуль 3 раздел
eltex-pgl-v7@eltex-2025-autumn-00:45>
```

7.

```
eltex-pgl-v7@eltex-2025-autumn-13:55> mv /home/eltex-pgl-v7/D1/D2/file.txt /home/eltex-pgl-v7/D1
eltex-pgl-v7@eltex-2025-autumn-13:56> cd D1
eltex-pgl-v7@eltex-2025-autumn-13:56> pwd
/home/eltex-pgl-v7/D1
eltex-pgl-v7@eltex-2025-autumn-13:56> ls
D2  file.txt
eltex-pgl-v7@eltex-2025-autumn-13:56> cat file.txt
Генинг Даниил, 1 модуль 3 раздел
```

8.

```
eltex-pgl-v7@eltex-2025-autumn-14:02> ls
hardlink.txt  softlink.txt
eltex-pgl-v7@eltex-2025-autumn-14:02> cat hardlink.txt
Генинг Даниил, 1 модуль 3 раздел
eltex-pgl-v7@eltex-2025-autumn-14:02> cat softlink.txt
cat: softlink.txt: No such file or directory
```

Из рисунка видно, что рабочей осталась жесткая ссылка.

У жесткой ссылки inode такой же, как и у самого файла. Она (жесткая ссылка) указывает на один и тот же inode, что и сам файл. А символическая ссылка указывает на другой inode, отличный от file.txt. Она просто указывает на тот файл (file.txt). И после удаления или

перемещения file.txt символическая ссылка указывает на пустое место.

9.

```
cd D1
rm -r D2
eltex-pgl-v7@eltex-2025-autumn-14:34> cd D1
eltex-pgl-v7@eltex-2025-autumn-14:35> ls
file.txt
```

10.

```
eltex-pgl-v7@eltex-2025-autumn-15:06> find / type f -size +20M 2>/dev/null
/usr/bin/x86_64-linux-gnu-lto-dump-12
/usr/lib/gcc/x86_64-linux-gnu/12/ltol
/usr/lib/gcc/x86_64-linux-gnu/12/cc1
/usr/lib/x86_64-linux-gnu/libcudata.so.72.1
/proc/kcore
/boot/initrd.img-6.1.0-31-amd64
/boot/initrd.img-6.1.0-32-amd64
/boot/initrd.img-6.1.0-40-amd64
/var/cache/apt/srcpkgcache.bin
/var/cache/apt/pkgcache.bin
/var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_binary-amd64_Packages
/var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_source_Sources
/var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_il8n_Translation-en
```

```
eltex-pgl-v7@eltex-2025-autumn-15:14> du -h $(find / type f -size +20M 2>/dev/null) 2>/dev/null
31M    /usr/bin/x86_64-linux-gnu-lto-dump-12
31M    /usr/lib/gcc/x86_64-linux-gnu/12/ltol
32M    /usr/lib/gcc/x86_64-linux-gnu/12/cc1
30M    /usr/lib/x86_64-linux-gnu/libcudata.so.72.1
0      /proc/kcore
33M    /boot/initrd.img-6.1.0-31-amd64
33M    /boot/initrd.img-6.1.0-32-amd64
33M    /boot/initrd.img-6.1.0-40-amd64
38M    /var/cache/apt/srcpkgcache.bin
38M    /var/cache/apt/pkgcache.bin
48M    /var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_binary-amd64_Packages
49M    /var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_source_Sources
32M    /var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_il8n_Translation-en
```

```
eltex-pgl-v7@eltex-2025-autumn-15:15> find / type f -size +20M 2>/dev/null > ${USER}_part3_gt50M.log
eltex-pgl-v7@eltex-2025-autumn-15:16> ls
2025-01 2025-05 2025-09 D1 report_part1.txt
2025-02 2025-06 2025-10 eltex-pgl-v7_part3_gt50M.log
2025-03 2025-07 2025-11 eltex-pgl-v7_part3.log
2025-04 2025-08 2025-12 eltex-pgl-v7_part.log
eltex-pgl-v7@eltex-2025-autumn-15:16> cat eltex-pgl-v7_part3_gt50M.log
/usr/bin/x86_64-linux-gnu-lto-dump-12
/usr/lib/gcc/x86_64-linux-gnu/12/ltol
/usr/lib/gcc/x86_64-linux-gnu/12/cc1
/usr/lib/x86_64-linux-gnu/libcudata.so.72.1
/proc/kcore
/boot/initrd.img-6.1.0-31-amd64
/boot/initrd.img-6.1.0-32-amd64
/boot/initrd.img-6.1.0-40-amd64
/var/cache/apt/srcpkgcache.bin
/var/cache/apt/pkgcache.bin
/var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_binary-amd64_Packages
/var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_source_Sources
/var/lib/apt/lists/deb.debian.org_debian_dists_bookworm_main_il8n_Translation-en
```

11-12.

```
eltex-pgl-v7@eltex-2025-autumn-15:24> find ~ -type f -mtime -1 -print
/home/eltex-pgl-v7/eltex-pgl-v7_part3.log
/home/eltex-pgl-v7/eltex-pgl-v7_part.log
/home/eltex-pgl-v7/.viminfo
/home/eltex-pgl-v7/eltex-pgl-v7_part3_gt50M.log
/home/eltex-pgl-v7/.log
/home/eltex-pgl-v7/Dl/file.txt
/home/eltex-pgl-v7/.bash_history
/home/eltex-pgl-v7/.bashrc
```

13.

```
eltex-pgl-v7@eltex-2025-autumn-15:29> which find
/usr/bin/find
```

14.

```
eltex-pgl-v7@eltex-2025-autumn-15:34> file /usr/bin/find
/usr/bin/find: ELF 64-bit LSB pie executable, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/ld-linux-x86-64.so.2, BuildID[sha1]=5545a6c7162d325fbe5ffabcbfe4e5521b66ce70, for GNU/Linux 3.2.0, stripped
```

15.

```
eltex-pgl-v7@eltex-2025-autumn-15:56> file -b /boot/initrd.img*
ASCII cpio archive (SVR4 with no CRC)
ASCII cpio archive (SVR4 with no CRC)
ASCII cpio archive (SVR4 with no CRC)
```

Файлы initrd.img представляют собой архивы cpio, которые являются стандартным форматом для initramfs.