

ОТЧЕТ

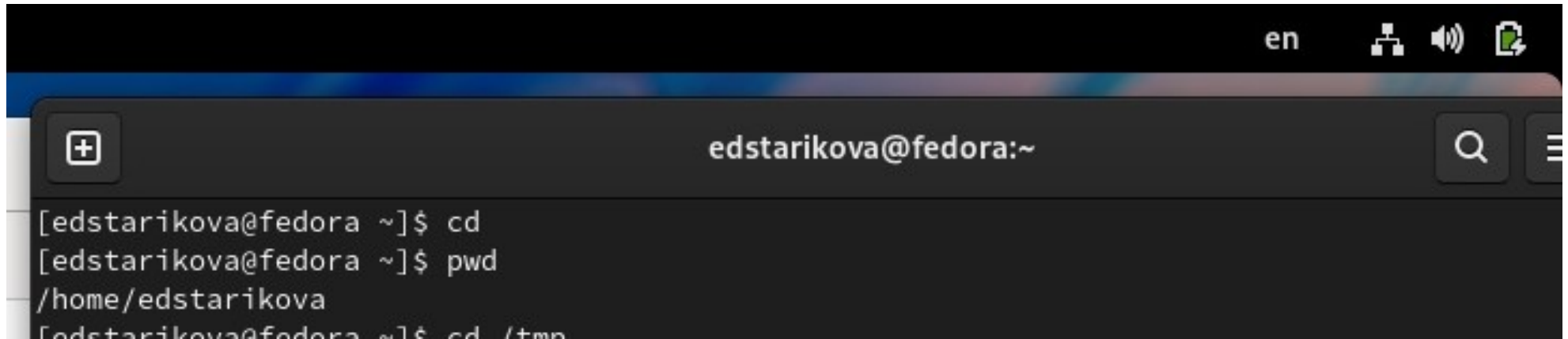
ПО ЛАБОРАТОРНОЙ РАБОТЕ № 4

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НБИбд-03-21.

Цель работы

- Целью данной работы является приобретение практических навыков взаимодействия пользователя с системой посредством командной строки.

Определяем полное имя домашнего каталога



A screenshot of a terminal window on a Fedora system. The window title is "edstarikova@fedora:~". The terminal shows the following commands and output:

```
[edstarikova@fedora ~]$ cd  
[edstarikova@fedora ~]$ pwd  
/home/edstarikova  
[edstarikova@fedora ~]$ cd /tmp
```

Переходим в каталог /tmp и выводим его содержимое с помощью ls различными опциями.

- **ls**

```
home/castor@nova: ~$ cd /tmp
[edstarikova@fedora tmp]$ ls
```

```
mozilla_edstarikova0
systemd-private-88f802cc23324973a18bf31a6f7307f9-chronyd.service-bNYsVH
systemd-private-88f802cc23324973a18bf31a6f7307f9-colord.service-UftXrX
systemd-private-88f802cc23324973a18bf31a6f7307f9-dbus-broker.service-Yzusia
systemd-private-88f802cc23324973a18bf31a6f7307f9-geoclue.service-zDoRbY
systemd-private-88f802cc23324973a18bf31a6f7307f9-low-memory-monitor.service-BSWV2I
systemd-private-88f802cc23324973a18bf31a6f7307f9-ModemManager.service-I3NL71
systemd-private-88f802cc23324973a18bf31a6f7307f9-power-profiles-daemon.service-EOKdiP
systemd-private-88f802cc23324973a18bf31a6f7307f9-rtkit-daemon.service-GSvSOf
systemd-private-88f802cc23324973a18bf31a6f7307f9-switcheroo-control.service-H70VxY
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-logind.service-JB2M7N
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-oomd.service-TMLIEf
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-resolved.service-G0CEXR
systemd-private-88f802cc23324973a18bf31a6f7307f9-upower.service-Uddlie
tmp-7db29b6b-0dcc-4af1-8e4f-d32c323879e2
tracker-extract-3-files.1000
```

```
home/castor@nova: ~$ cd /tmp
[edstarikova@fedora tmp]$ ls
mozilla_edstarikova0
systemd-private-88f802cc23324973a18bf31a6f7307f9-chronyd.service-bNYsVH
systemd-private-88f802cc23324973a18bf31a6f7307f9-colord.service-UftXrX
systemd-private-88f802cc23324973a18bf31a6f7307f9-dbus-broker.service-Yzusia
systemd-private-88f802cc23324973a18bf31a6f7307f9-geoclue.service-zDoRbY
systemd-private-88f802cc23324973a18bf31a6f7307f9-low-memory-monitor.service-BSWV2I
systemd-private-88f802cc23324973a18bf31a6f7307f9-ModemManager.service-I3NL71
systemd-private-88f802cc23324973a18bf31a6f7307f9-power-profiles-daemon.service-EOKdiP
systemd-private-88f802cc23324973a18bf31a6f7307f9-rtkit-daemon.service-GSvSOf
systemd-private-88f802cc23324973a18bf31a6f7307f9-switcheroo-control.service-H70VxY
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-logind.service-JB2M7N
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-oomd.service-TMLIEf
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-resolved.service-G0CEXR
systemd-private-88f802cc23324973a18bf31a6f7307f9-upower.service-Uddlie
tmp-7db29b6b-0dcc-4af1-8e4f-d32c323879e2
tracker-extract-3-files.1000
```

Ls -a

```
edstarikova@fedora:~  
tracker-extract-3-files.1000  
[edstarikova@fedora tmp]$ ls -a  
.  
..  
.font-unix  
.ICE-unix  
mozilla_edstarikova0  
systemd-private-88f802cc23324973a18bf31a6f7307f9-chronyd.service-bNYsVH  
systemd-private-88f802cc23324973a18bf31a6f7307f9-colord.service-UftXrX  
systemd-private-88f802cc23324973a18bf31a6f7307f9-dbus-broker.service-Yzusia  
systemd-private-88f802cc23324973a18bf31a6f7307f9-geoclue.service-zDoRbY  
systemd-private-88f802cc23324973a18bf31a6f7307f9-low-memory-monitor.service-BSWV2I  
systemd-private-88f802cc23324973a18bf31a6f7307f9-ModemManager.service-I3NL71  
systemd-private-88f802cc23324973a18bf31a6f7307f9-power-profiles-daemon.service-E0KdiP  
systemd-private-88f802cc23324973a18bf31a6f7307f9-rtkit-daemon.service-GSvSof  
systemd-private-88f802cc23324973a18bf31a6f7307f9-switcheroo-control.service-H70VxY  
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-logind.service-JB2M7N  
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-oomd.service-THlIEf  
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-resolved.service-GOCEXR  
systemd-private-88f802cc23324973a18bf31a6f7307f9-upower.service-Uddlie  
Temp-7db29b6b-0dcc-4af1-8e4f-d32c323879e2  
.Test-unix  
tracker-extract-3-files.1000  
.X0-lock  
.X1024-lock  
.X1025-lock  
.X11-unix  
.X1-lock  
.XIM-unix
```

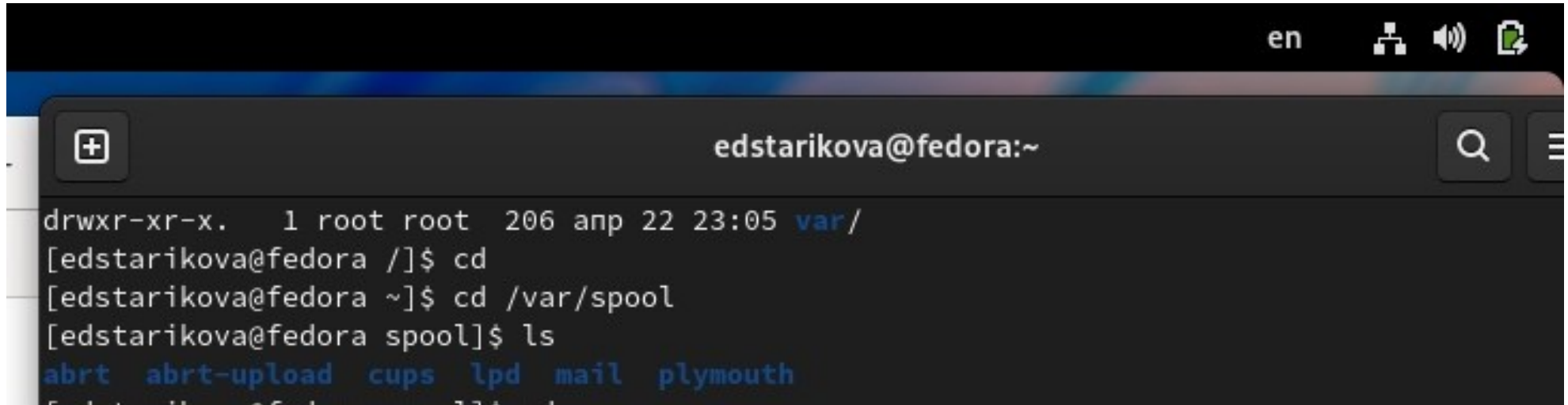
ls-F

```
edstarikova@fedora:~  
[edstarikova@fedora tmp]$ ls -F  
mozilla_edstarikova/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-chronyd.service-bNYsVH/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-colord.service-UftXrX/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-dbus-broker.service-Yzusia/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-geoclue.service-zDoRbY/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-low-memory-monitor.service-BSWV2I/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-ModemManager.service-I3NL71/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-power-profiles-daemon.service-EOKdiP/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-rtkit-daemon.service-GSvSOf/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-switcheroo-control.service-H70VxY/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-logind.service-JB2M7N/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-oemd.service-TMLIEf/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-systemd-resolved.service-G0CEXR/  
systemd-private-88f802cc23324973a18bf31a6f7307f9-upower.service-Udd1ie/  
Temp-7db29b6b-0dcc-4af1-8e4f-d32c323879e2/  
tracker-extract-3-files.1000/
```

Ls -l

```
edstarikova@fedora:~  
Temp-7db29b6b-0dcc-4af1-8e4f-d32c323879e2/  
tracker-extract-3-files.1000/  
[edstarikova@fedora tmp]$ ls -l  
итого 0  
drwx-----, 2 edstarikova edstarikova 60 anp 26 22:06 mozilla_edstarikova0  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-chronyd.service-bNYsVH  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-colord.service-UftXrX  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-dbus-broker.service-Vzusia  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-geoclue.service-zDoRbY  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-low-memory-monitor.service-BSWV2I  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-ModemManager.service-I3NL7I  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-power-profiles-daemon.service-EOKdiP  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-rtkit-daemon.service-GSvS0f  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-switcheroo-control.service-H70VxY  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-systemd-logind.service-JB2M7N  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-systemd-oomd.service-TMLIEf  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-systemd-resolved.service-GOCXR  
drwx-----, 3 root root 60 anp 23 12:56 systemd-private-88f802cc23324973a18  
7307f9-upower.service-Uddlie  
drwx-----, 3 edstarikova edstarikova 60 anp 23 21:52 Temp-7db29b6b-0dcc-4af1-8e4f-d32c32  
drwx-----, 2 edstarikova edstarikova 40 anp 26 21:40 tracker-extract-3-files.1000
```

Определить, есть ли в каталоге /var/spool подкаталог с именем cron



A terminal window titled "edstarikova@fedora:~" with a search icon and a menu icon on the right. The terminal shows the following commands and output:

```
drwxr-xr-x.  1 root root  206 апр 22 23:05 var/  
[edstarikova@fedora /]$ cd  
[edstarikova@fedora ~]$ cd /var/spool  
[edstarikova@fedora spool]$ ls  
abrt  abrt-upload  cups  lpd  mail  plymouth
```


Переходим в наш домашний каталог и выводим на экран его содержимое.

```
[edstarikova@fedora spool]$ cd
[edstarikova@fedora ~]$ ls
bit          ed25519.pub      work          Загрузки      Общедоступные
bit.pub      gitflow          Видео         Изображения   'Рабочий стол'
ed25519      gitflow-installer.sh  Документы    Музыка        Шаблоны
```

Создаём новый каталог с именем newdir.

```
[edstarikova@fedora ~]$ cd  
[edstarikova@fedora ~]$ mkdir newdir  
[edstarikova@fedora ~]$ cd /newdir
```

В каталоге ~/newdir создаём новый каталог с именем morefun.

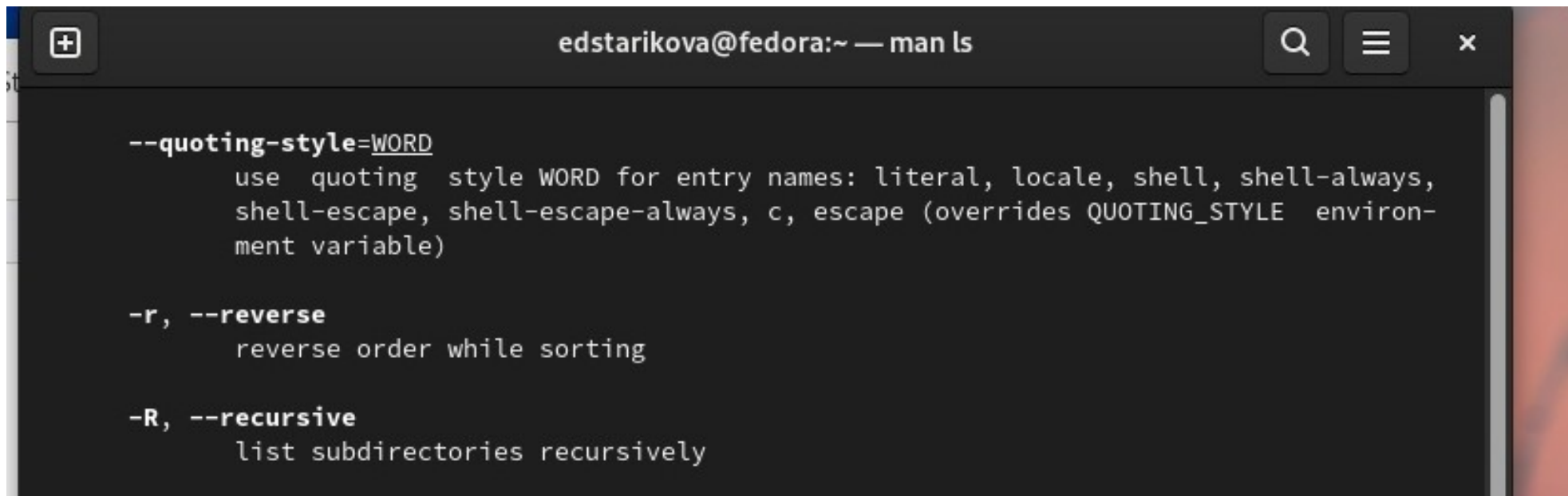
```
[edstarikova@fedora ~]$ cd ~/newdir  
[edstarikova@fedora newdir]$ mkdir morefun
```

В домашнем каталоге создайте одной командой три новых каталога с именами letters, memos, misk. Затем удалите эти каталоги одной командой.

```
[edstarikova@fedora newdir]$ cd
[edstarikova@fedora ~]$ mkdir letters memos misk
[edstarikova@fedora ~]$ ls
bit          ed25519.pub      letters  newdir  Документы  Музыка  Шаблон
bit.pub      gitflow          memos    work    Загрузки   Общедоступные
ed25519      gitflow-installer.sh  misk     Видео   Изображения 'Рабочий стол'
[edstarikova@fedora ~]$ rmdir letters memos misk
[edstarikova@fedora ~]$ ls
bit          ed25519.pub      newdir  Документы  Музыка  Шаблоны
bit.pub      gitflow          work    Загрузки   Общедоступные
ed25519      gitflow-installer.sh  Видео   Изображения 'Рабочий стол'
```

```
edstarikova@fedora ~]$ rm ~/newdir
rm: невозможно удалить '/home/edstarikova/newdir': Это каталог
edstarikova@fedora ~]$ rm /newdir
rm: невозможно удалить '/newdir': Нет такого файла или каталога
edstarikova@fedora ~]$ rmdir newdir
rmdir: не удалось удалить 'newdir': Каталог не пуст
edstarikova@fedora ~]$ rmdir newdir/morefun
edstarikova@fedora ~]$ ls
bit          ed25519.pub      newdir  Документы      Музыка          Шаблоны
bit.pub      gitflow          work    Загрузки       Общедоступные
ed25519      gitflow-installer.sh  Видео   Изображения    'Рабочий стол'
edstarikova@fedora ~]$ rmdir newdir/morefun
rmdir: не удалось удалить 'newdir/morefun': Нет такого файла или каталога
```

С помощью команды `man` определите, какую опцию команды `ls` нужно использовать для просмотра содержимое не только указанного каталога, но и подкаталогов, входящих в него.



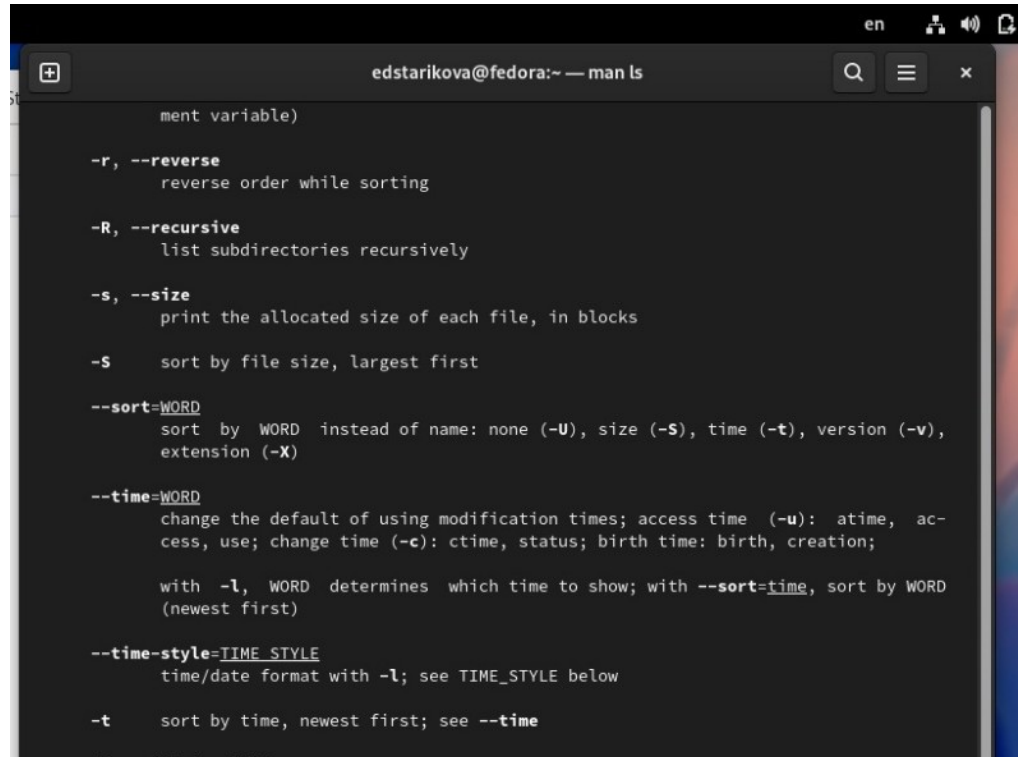
```
edstarikova@fedora:~ — man ls

--quoting-style=WORD
    use quoting style WORD for entry names: literal, locale, shell, shell-always,
    shell-escape, shell-escape-always, c, escape (overrides QUOTING_STYLE environ-
    ment variable)

-r, --reverse
    reverse order while sorting

-R, --recursive
    list subdirectories recursively
```

С помощью команды `man` определите набор опций команды `ls`, позволяющий отсортировать по времени последнего изменения выводимый список содержимого каталога с развёрнутым описанием файлов.



```
ment variable)

-r, --reverse
    reverse order while sorting

-R, --recursive
    list subdirectories recursively

-s, --size
    print the allocated size of each file, in blocks

-S      sort by file size, largest first

--sort=WORD
    sort by WORD instead of name: none (-U), size (-S), time (-t), version (-v),
    extension (-X)

--time=WORD
    change the default of using modification times; access time (-u): atime, ac-
    cess, use; change time (-c): ctime, status; birth time: birth, creation;

    with -l, WORD determines which time to show; with --sort=time, sort by WORD
    (newest first)

--time-style=TIME_STYLE
    time/date format with -l; see TIME_STYLE below

-t      sort by time, newest first; see --time
```

Используйте команду `man` для просмотра описания следующих команд: `cd`, `pwd`, `mkdir`, `rmdir`, `rm`. Поясните основные опции этих команд.

```
[edstarikova@fedora ~]$ man ls
[edstarikova@fedora ~]$ man cd
[edstarikova@fedora ~]$ man pwd
[edstarikova@fedora ~]$ man mkdir
[edstarikova@fedora ~]$ man rmdir
[edstarikova@fedora ~]$ man rm
```



```
edstarikova@fedora:~ — man cd
BASH_BUILTINS(1)      General Commands Manual      BASH_BUILTINS(1)

NAME
    bash, :, ., [, alias, bg, bind, break, builtin, caller, cd, command, compgen, complete, compopt, continue, declare, dirs, disown, echo, enable, eval, exec, exit, export, false, fc, fg, getopts, hash, help, history, jobs, kill, let, local, logout, mapfile, popd, printf, pushd, pwd, read, readonly, return, set, shift, shopt, source, suspend, test, times, trap, true, type, typeset, ulimit, umask, unalias, unset, wait - bash built-in commands, see bash(1)

BASH BUILTIN COMMANDS
    Unless otherwise noted, each builtin command documented in this section as accepting options preceded by - accepts -- to signify the end of the options. The :, true, false, and test/[ builtins do not accept options and do not treat -- specially. The exit, logout, return, break, continue, let, and shift builtins accept and process arguments beginning with - without requiring --. Other builtins that accept arguments but are not specified as accepting options interpret arguments beginning with - as invalid options and require -- to prevent this interpretation.

    : arguments
        No effect; the command does nothing beyond expanding arguments and performing any specified redirections. The return status is zero.

    . filename [arguments]
    source filename [arguments]
        Read and execute commands from filename in the current shell environment and return the exit status of the last command executed from filename. If filename does not contain a slash, filenames in PATH are used to find the directory containing filename. The file searched for in PATH need not be executable. When bash is not in posix mode, the current directory is searched if no file is found in PATH. If the sourcepath option to the shopt builtin command is turned off, the PATH is not searched. If any arguments are supplied, they become the positional parameters when filename is executed. Otherwise the positional pa-
```

```
en  [system icons]
edstarikova@fedora:~ — man mkdir

MKDIR(1) User Commands MKDI

NAME
    mkdir - make directories

SYNOPSIS
    mkdir [OPTION]... DIRECTORY...

DESCRIPTION
    Create the DIRECTORY(ies), if they do not already exist.

    Mandatory arguments to long options are mandatory for short options too.

    -m, --mode=MODE
        set file mode (as in chmod), not a=rwx - umask

    -p, --parents
        no error if existing, make parent directories as needed

    -v, --verbose
        print a message for each created directory

    -Z
        set SELinux security context of each created directory to the default type

    --context[=CTX]
        like -Z, or if CTX is specified then set the SELinux or SMACK security con
        to CTX

    --help
        display this help and exit

    --version
        output version information and exit

Manual page mkdir(1) line 1 (press h for help or q to quit)
```

```
en [system icons]
edstarikova@fedora:~ — man rmdir
RMDIR(1) User Commands RMDIR(1)
NAME
    rmdir - remove empty directories
SYNOPSIS
    rmdir [OPTION]... DIRECTORY...
DESCRIPTION
    Remove the DIRECTORY(ies), if they are empty.
    --ignore-fail-on-non-empty
        ignore each failure that is solely because a directory
        is non-empty
    -p, --parents
        remove DIRECTORY and its ancestors; e.g., 'rmdir -p a/b/c' is similar to 'r
        a/b/c a/b a'
    -v, --verbose
        output a diagnostic for every directory processed
    --help
        display this help and exit
    --version
        output version information and exit
AUTHOR
    Written by David MacKenzie.
```

```
en
edstarikova@fedora:~ — man rm
RM(1) User Commands
NAME
rm - remove files or directories
SYNOPSIS
rm [OPTION]... [FILE]...
DESCRIPTION
This manual page documents the GNU version of rm. rm removes each specified file.
default, it does not remove directories.
If the -I or --interactive=once option is given, and there are more than three f
or the -r, -R, or --recursive are given, then rm prompts the user for whether to
ceed with the entire operation. If the response is not affirmative, the entire
mand is aborted.
Otherwise, if a file is unwritable, standard input is a terminal, and the -
--force option is not given, or the -i or --interactive=always option is given,
prompts the user for whether to remove the file. If the response is not affirmat
the file is skipped.
OPTIONS
Remove (unlink) the FILE(s).
-f, --force
ignore nonexistent files and arguments, never prompt
-i
prompt before every removal
-I
prompt once before removing more than three files, or when removing re
sively; less intrusive than -i, while still giving protection against most
Manual page rm(1) line 1 (press h for help or q to quit)
```

Вывод:

Я приобрела практические навыки взаимодействия пользователя с системой посредством командной строки.

Используя информацию, полученную при помощи команды `history`, выполните модификацию и исполнение нескольких команд из буфера команд.

```
[edstarikova@fedora ~]$ history
1 cd /tmp
2 wget --no-check-certificate -q https://raw.githubusercontent.com/petervanderdoes/
3 /gitflow/develop/contrib/gitflow-installer.sh
4 cd
5 cd /tmp
6 2 wget --no-check-certificate -q https://raw.githubusercontent.com/petervanderdoes/
7 /gitflow/develop/contrib/gitflow-installer.sh↵
8 3 chmod +x gitflow-installer.sh
```

