

All tasks should be performed on any educational server

1. You are about to execute this command: `ls -lFd /home/*a`

1. What does every option mean?

Command `ls [OPTION]... [FILE]...` Lists information about the FILES (the current directory by default).

`-l` means that we will see information in a long listing format

`F` classify by the expression `"/home/*a"`

`d` means that we need information about directory, not about its content

2. What is the expected result? We can see all directories in `/home/` directory which end with "a" at the end

```
drwx-----. 21 abaskova      qa 4096 Aug 12 12:44 /home/abaskova/
drwx-----.  3 abazanova     qa 4096 Apr 22 2023 /home/abazanova/
drwx-----.  7 aburlyaeva    qa 4096 Feb 28 2023 /home/aburlyaeva/
drwx-----. 11 agrebennikova qa 4096 Feb 21 2023 /home/agrebennikova/
drwx-----. 14 ahaldina      qa 4096 Jul 24 12:07 /home/ahaldina/
drwx-----.  3 akaminskaya   qa 4096 Nov 23 20:38 /home/akaminskaya/
drwx-----. 17 akritskaya    qa 4096 Apr 23 2023 /home/akritskaya/
drwx-----.  6 amakarcheva   qa 4096 Sep 19 11:23 /home/amakarcheva/
drwx-----.  2 anikitina     qa 4096 Aug 15 10:42 /home/anikitina/
drwx-----.  3 avernigora    qa 4096 Apr 12 2023 /home/avernigora/
drwx-----. 11 dfrolova      qa 4096 Jun 26 23:06 /home/dfrolova/
drwx-----. 13 dgolskaya     qa 4096 Nov 10 2022 /home/dgolskaya/
drwx-----. 11 eaptreeeva    qa 4096 Jan 23 2023 /home/eaptreeeva/
drwx-----. 23 ekarzina      qa 4096 Nov 25 01:11 /home/ekarzina/
drwx-----.  8 eshiyanova     qa 4096 Nov 27 2022 /home/eshiyanova/
drwx-----.  3 gsitdikova     qa 4096 Jan 23 2023 /home/gsitdikova/
drwx-----.  7 ilaricheva    qa 4096 Nov 21 2022 /home/ilaricheva/
drwx-----. 18 imuslimova    qa 4096 Nov  8 2022 /home/imuslimova/
drwx-----.  3 ipapara       qa 4096 Nov 23 20:38 /home/ipapara/
drwx-----. 10 iyusupova     qa 4096 Jun 13 22:33 /home/iyusupova/
drwx-----.  9 lamirova       qa 4096 Aug 11 03:15 /home/lamirova/
drwx-----.  3 lkozinskaya    qa 4096 Nov 23 13:20 /home/lkozinskaya/
drwx-----.  2 lurmazova     qa 4096 Oct 17 19:01 /home/lurmazova/
drwx-----.  3 makulova       qa 4096 Jan 23 2023 /home/makulova/
drwx-----.  3 mcherepanina   qa 4096 Nov 23 20:38 /home/mcherepanina/
drwx-----.  5 mkozyreva     qa 4096 Nov 16 20:51 /home/mkozyreva/
drwx-----.  6 mtokareva     qa 4096 Nov 12 15:33 /home/mtokareva/
drwx-----.  3 nbannikova     qa 4096 Nov  5 08:21 /home/nbannikova/
drwx-----. 11 nkovaleva      qa 4096 Mar  2 2023 /home/nkovaleva/
drwx-----.  3 nlizunova      qa 4096 Nov 23 20:38 /home/nlizunova/
drwx-----.  8 nsklianova     qa 4096 Mar  2 2023 /home/nsklianova/
drwx-----.  9 nvasileva     qa 4096 Dec  4 2022 /home/nvasileva/
drwx-----. 26 oblinnikova   qa 4096 Nov 18 13:53 /home/oblinnikova/
drwx-----.  3 ookhapkina     qa 4096 Nov 24 11:47 /home/ookhapkina/
drwx-----.  6 ostaseva       qa 4096 Nov 11 17:43 /home/ostaseva/
```

2. Provide the proper commands to do the following:

1. Get the content of the directory that stores the main OS & application settings

`ls /etc` or `ls -l /etc` if we want to see information detailed information

2. Jump to the directory with the main system logs

```
cd /var/log
```

3. Show the extended information about the content of your home directory

```
ls -la ~
```

or

```
ls -la /home/ipapara
```

4. Show the extended information about your home directory itself (not about its content)

```
ls -ld /home/ipapara
```

3. Imagine you have a lot of log files (their names end up with ".log") in the directory 1 level upper. How to move them into the current working directory with only 1 command?

```
mv ../log .
```

4. Then, you want to copy these log files, whose names start from "1" and end up with ".log", from your current directory to /tmp. Which command will you use?

```
cp 1*.log /tmp
```

5. Execute the following command:

```
ls -lF /home/not-your-account
```

(put any existing name instead of "not-your-account")

You will see an error. Find any file or directory not in /home that leads to the same error.

```
ls -lF /home/rkorsun
```

We can see a mistake:

```
ls: cannot open directory /home/rkorsun: Permission denied
```

```
less /etc/tcsd.conf
```

We can see the same mistake with file:

```
/etc/tcsd.conf: Permission denied
```

We see such mistake because only the owner can see this file .

```
-rw-----. 1 tss tss    7046 Aug  3 2017 tcsd.conf
```

The same problem was with previous directory.

```
drwx-----. 4 rkorsun   qa    4096 Nov 13 23:18 rkorsun
```

6. You have these 2 commands being executed within your HOME (imagine you already have ~/lesson-1 directory there)

```
ls -l ./lesson-1
```

```
ls -l .bashrc
```

What's the difference in "." symbol's meaning?

```
ls -l ./lesson-1
```

This command lists the detailed information about the contents of the "lesson-1" directory in the current location (.). The ./ indicates the current directory

-l .bashrc: This command lists the detailed information about the ".bashrc" file in the current directory.

. here refers to the current directory, so it's like ls -l ~/.bashrc where ~ represents your home directory.

7. Imagine you have the following directory structure:

/home/user

/home/user/photos

/home/user/photos/private

/home/user/docs

/home/user/videos

Now you are in /home/user/videos

How to change your current working directory in one action to /home/user/photos/private by using only relative paths?

cd ../photos/private