

Lab class assignment June 2021- READ CAREFULLY !

Format of the assignment:

Assignments are sent by email to me. Do not reply to other messages, send a new message.
Please attach your script files individually to the message (not necessarily zipped). What is more important, please also paste the contents of your scripts in the clear text below your message.
Needless to say, use indentation and vertical spacing for clarity in your code (almost all of you do it very well).
You may use a fixed-width font to save indentation in your email.
In your message, include a statement that you claim the authorship of the submitted scripts, if not, indicate otherwise. This implies that a student who submits your work as his own can be held accountable. Submissions without clear authorship statement will be treated as non-original.
Always include all of your work, as if your mail overrided anything you have sent so far, and your previous emails could be deleted without any loss of content.
If you want to send me your script just to ask a question, include a tag in your title, say PREVIEW, so that I know this is not the final version for evaluation.
It is a very good idea to provide verbose comments for your scripts

ASSIGNMENTS:

Write a script which for any name given as an argument -- either first name or surname -- prints the list of paths to home directories of system users with this name. Example:

```
$ shownames jakub anna
/home/users/jakubo
/home/students/j_luczka
/home/students/kubeusz
/home/students/jakub5z
/home/students/qwertinx
/home/users/lazinska
/home/students/annalaz
```

Write a script which pauses the session for the number of seconds given as argument, and then displays the total size of all files whose names were removed from the current directory.
Example:

```
$ watchdir 60
# sleeping for a while ...
removed files total size 2345
```

Write a script which takes a PID as an argument and prints PID's of all its GRANDchildren and grandgrandchildren.
Example:

```
$ printthem 3545
3547
3548
3666
```

Write a script which for each directory given on standard input (in a separate line) prints the user with the largest number of files in this directory.
Example:

```
$ thewinneris << STOP
> /etc
> /tmp
> /home/users/jakubo
> STOP
root
killertrashman
jakubo
```