

[*Editor's Comments*: some typos fixed]

---INSTRUCTOR---

Hello there!

---SANDRA HU---

HW#2 question 8, what does the question mean? I don't get it

---INSTRUCTOR---

Hold on...

---INSTRUCTOR---

What is it that you don't get?

---SANDRA HU---

I don't understand what the command for

---INSTRUCTOR---

You're supposed to write a command line...

---INSTRUCTOR---

Using three variables...

---SANDRA HU---

Execute that command inside the command?

---INSTRUCTOR---

Have you read lecture 2 yet?

---SANDRA HU---

Yes

---MANJU S GOGTE---

Hello mike.

---KEVIN D SHENK---

Hello Mike

---INSTRUCTOR---

Ok, then you know that you can assign variables with values. And you can have those values be commands, like **ls** or **cat**, etc....

---INSTRUCTOR---

Hello Manju and Kevin.

---INSTRUCTOR---

So you can create three variables, and have the first one's value be a command...

---INSTRUCTOR---

And the second and third would be options or arguments to that command...

---INSTRUCTOR---

Hello Yifan!

---SANDRA HU---

Any command?

---INSTRUCTOR---

Yes!

---YIFAN MAO---

Hello

---MANJU S GOGTE---

How can we check if I given set of characters will make a valid variable name

---INSTRUCTOR---

Read the chapter?

---SANDRA HU---

OK!

---MANJU S GOGTE---

I did must have missed it will go back to it tonight

---INSTRUCTOR---

Manju - how about page 107, the first paragraph of the Variables section...

---INSTRUCTOR---

Are there any other questions out there in Ether-land?

---MANJU S GOGTE---

Ok - I found it thanks

---SEYON VERDTZABELLA---

How can I have my shell remember my command history?

---INSTRUCTOR---

Which shell are you using?

---SEYON VERDTZABELLA---

bash

---INSTRUCTOR---

There are three variables for this:

HISTFILE=/home/staff/cappella/.bash_history

HISTFILESIZE=500

HISTSIZE=500

---INSTRUCTOR---

This HISTFILE variable is the file where you history is saved each logout

---INSTRUCTOR---

This HISTFILESIZE is the number of commands to save on logout

---INSTRUCTOR---

The HISTSIZE is the number of commands to retain during your session

---INSTRUCTOR---

These are good questions to ask on the forum, since everyone will get a chance to see them, and can answer as well.

---INSTRUCTOR---

By the way, do you all like the forum?

---YIFAN MAO---

Once you assign value to a variable, it remains the value until you log out of the session, right?

---INSTRUCTOR---

Until the shell exits or it is changed.

---INSTRUCTOR---

... I mean, until the variable is changed by you or the shell programmatically, like in a script.

---INSTRUCTOR---

Everyone sleeping?

---MANJU S GOGTE---

No

---SEYON VERDTZABELLA---

Feedback on Forum:

I like having a scheduled time to chat with the Instructor. :]

---INSTRUCTOR---

Manju - was that a "no" you're not sleeping? Or "no", you don't like the Forum?

---MANJU S GOGTE---

No I am not sleeping

---INSTRUCTOR---

Seyon - I was referring to the Forum on the class website, not this Etudes chat session (Tues/Thurs). What do you all think about the Forum on the website?

---YIFAN MAO---

"This HISTFILESIZE is the number of commands to save on logout", that sounds like the shell remembers the command even after exits

---INSTRUCTOR---

That's right Yifan - the shell can remember your commands that you typed after you logout. They are then re-loaded when you login so that your history is still available to you.

---MANJU S GOGTE---

On page 102 3b) how will you find users on your system whose user id is greater than say 75 instead of 99

---INSTRUCTOR---

Well, let's see. From your homework, you did:

```
cut -d: -f3 /etc/passwd | grep '[0-9]\{3,\}'
```

But this does not tell you who is logged in, right?

---INSTRUCTOR---

Anyone know the command to use for finding out who is on the system?

---MANJU S GOGTE---

That is true. It gives me the ids. Now how do I feed those ids into the pipe to get the names?

---KEVIN D SHENK---

who

---INSTRUCTOR---

I'm sorry Manju - I was looking at 3c, not 3b.

---INSTRUCTOR---

For 3b, the number of users whose UIDs are greater than 99...

---INSTRUCTOR---

... what do numbers look like that are greater than 99?

---MANJU S GOGTE---

They are three or more digits

---INSTRUCTOR---

That's right! And that is what this part of your answer looks for:

```
grep '[0-9]\{3,\}'
```

---MANJU S GOGTE---

i think i did 3b correct and 3c incomplete

---INSTRUCTOR---

Well, your cut command would give you the UIDs great than 99, but not the user names...

---MANJU S GOGTE---

true now how do we feed those ids into the next command to get the names

---INSTRUCTOR---

So, somehow you need to keep the username too, while at the same time, match the UIDs > 99.

---INSTRUCTOR---

Sandra, what would you do?

---INSTRUCTOR---

Well, let's look at a line from /etc/passwd:

```
root:x:0:1:Super-User:/:/bin/ksh
```

---INSTRUCTOR---

What you want is Field 1, and Field 3, right?

---SANDRA HU---

You mean what my answer?

---INSTRUCTOR---

Sandra, I meant how did you go about figuring out the problem...

---MANJU S GOGTE---

Right so in the cut command we will add field 1 also

---INSTRUCTOR---

Yes Manju - that would give you things like:

```
manju:1000
```

---YIFAN MAO---

I saw in page 6 the second paragraph, it says "who" command list user names and user id is listed the tty number of that user.

---INSTRUCTOR---

Then from there you could simply grep for lines that have UIDs > 99, right?

---MANJU S GOGTE---

Thanks mike, I was losing sleep over this one did not realize how easy it was

---SANDRA HU---

I cut field 1 and three first, then grep ':.\{3,\}' , then cut first field to get the username

---INSTRUCTOR---

Many of these problems are easy - you just have to relax and think about novel ways of solving them.

---INSTRUCTOR---

Yifan, yes you are correct - the **who** command gives you this information.

---INSTRUCTOR---

Right Sandra - that does it!

---MANJU S GOGTE---

Do you think I can get credit for this one since i did work it out with some help

---INSTRUCTOR---

Manju - you're too worried about credit all the time! ;-)

---YIFAN MAO---

So I do not have to use /etc/passwd file, but also can get the problem solved by using who command, right?

---MANJU S GOGTE---

Knowing you I should

---MANJU S GOGTE---

But I promise no more worrying

---INSTRUCTOR---

So, I'm still waiting for some feedback on the Forum that I put on the site? Nobody likes it? If not, then I can remove it...

---MANJU S GOGTE---

I am glad you are not grading my spelling today it is awful

---MANJU S GOGTE---

I do not know how this forum works

---MANJU S GOGTE---

I have never used one before

---INSTRUCTOR---

Kevin, what's up? You doing ok with the homework and first 5 chapters?

---INSTRUCTOR---

The forum is like an old fashion bulletin board, with more bells and whistles.

---KEVIN D SHENK---

Working on problem #8

---KEVIN D SHENK---

I can't get a pipe to work as a variable. Any suggestions

---INSTRUCTOR---

I'm not sure you can do that so easily, not with what you know so far...

---INSTRUCTOR---

Thus far, you've only learned about variable substitution and filename matching, not other shell separators and when they are processed.

---KEVIN D SHENK---

I will write a easier command

---INSTRUCTOR---

Good idea...

---INSTRUCTOR---

Any comments or feedback about the class thus far?

---MANJU S GOGTE---

Need to go. Will be here on Thursday. Bye

---KEVIN D SHENK---

Question from homework 1, doesn't ([A-Za-z0-9]{1,}\)\1 ask the same thing twice

---INSTRUCTOR---

Check out the forum - this was discussed at length in there already.

---KEVIN D SHENK---

Talk to you later

---YIFAN MAO---

I had trouble log on to the forum, it claimed the username <deleted> does not exist

---INSTRUCTOR---

Yifan, that username does not exist IN the forum; send me email about this offline.

---SANDRA HU---

Bye!

---INSTRUCTOR---

Yifan, still there?

---YIFAN MAO---

Yes, I think I am getting there to log on the forum. I forgot to register first

---INSTRUCTOR---

Yes, you must register after you pass through the first login challenge.

---INSTRUCTOR---

I see you have just registered!

---INSTRUCTOR---

I will be leaving in 5 minutes - anything else?

---YIFAN MAO---

I got in! Thanks! Good night!

---INSTRUCTOR---

Good night.

[End of Transcript]