

Mod 07 BASH Strings Homework

SCRIPTING ESSENTIALS

DR. BURKMAN

Read through the entire homework
problem before starting.

Instructions

Use the same method to set up the `Mod07Homework_starter.sh` script in your openSUSE environment as you did in the Mod 06 Homework.

We are making a small menu system for looking up user names based on either their first name or last name. We are also providing for the addition and deletion of names. Those changes will only exist during the running of our script since we are just changing a array in real time, but that's ok for now.

Check my output video carefully. Your script must work like mine and look like mine.

Use the Mod 03 homework solution for logic flow.

Main Menu

The main menu should be the body of the script. It should include the menu text and IF/ELIF/ELSE statements representing each menu choice. Each menu choice should only be a function call (5 is just a break).

Option 1

This function should take one or more of the letters that begin a first name. User input can be any case to match a name. If no names matched then return the message in my example. This function does not check for one or more letters within a first name.

- “am” will find “Amber Wright” but will not find “Herman Martin”

Just hitting enter should return all the names

Names will not be sorted

Option 1

This option maps well to the Python version.

- You'll need to upper the first initial, lower the rest, then combine them to get a correctly title cased name.
- As you iterate through the array of names you'll need to cut at the underscore to get the first name.
- Remember to pipe your name echo to tr to get rid of the underscore

Option 2

This function should take one or more of the letters that begin a last name. User input can be any case to match a name. If no names matched then return the message in my example. This function does not check for one or more letters within a last name.

- “ro” will find “Clinton Ross” but will not find “Adam Gross”

It is fine if just hitting enter returns all the names

Names will not be sorted

Option 2

This option maps well to the Python version

- This option isn't very different than Option 1

Option 3

This function should get the new first name and then the new last name. **It must check the first name for any spaces prior to going to accept the last name.** This will prevent users from entering a full name in the first name spot. User input can be any case to match a name. Add the new name to the name array then inform the user that the name has been added.

Option 3

This option maps well to the Python version

- New: we are checking for spaces in the first name. If a space exists we make them enter it again.
- You'll have to build the title cased first and last names, then put them together for a full name.
- Remember to pipe your name echo to tr to get rid of the underscore

Option 4

The full name is required to delete a name. Give the user the option to view the names first by calling the Option 1 function (search by first name) if requested. Give the user the option to quit with “Q” (of any case). Return the appropriate message if no names matching the input are found.

You must actually delete the index, not just unset.

You can call a function within a function. It's no different than calling a function from the body of the script.

Option 4

This option maps well to the Python version

- I set a counter to zero at the top. While deleting the name I set the counter to 1. After the name deletion loop I check that counter. If it isn't equal to 1 then I print the message that the name was not found in the array.
- To delete the name I suggest iterating with !array (Mod 06, slide 9) to get the index numbers. Once you find a match with the name to be deleted you can set the name array like slide 6 in the Mod 06 lecture PowerPoints.