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= Assignment - Unix History =

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Description

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In lecture, we have discussed some basic file system navigation commands as

well as how to edit and save a file, and then run it as a bash script. This

assignment will have you write a simple script that demonstrates this

knowledge.

Write a script, called UnixHistory.sh, which will generate an abbreviated

"tree" of the Unix and Unix like operating system ancestry. The data source, as

always, can be found on Wikipedia:

https://en.wikipedia.org/wiki/File:Unix\_history.svg

The Unix history begins with a directory named ResearchUnix that has two

children: BSD and Commercial.

BSD has two children FreeBSD and NextStep, NextStep has a single child

directory: MacOSX.

Commercial has one sub-directory named Solaris

NOTE all the elements mentioned above are directories, created with the mkdir

command. We haven't discussed any files (yet).

Inside of each directory, there should be a regular file called Year (create

this with an echo > command, just as we have in lecture). The Year file holds

the approximate beginning date for each Unix variant. Here is a list of values

for the corresponding Unix variant:

ResearchUnix = 1972

Commercial = 1984

BSD = 1977

Solaris = 1991

FreeBSD = 1993

NextStep = 1988

MacOSX = 2002

A sample run of your script must look like this:

$ bash UnixHistory.sh

$

Which is to say nothing should be printed if all went well.

You can check your work with the find command:

$ find

.

./UnixHistory.sh

./ResearchUnix

./ResearchUnix/BSD

./ResearchUnix/BSD/NextStep

./ResearchUnix/BSD/NextStep/Year

./ResearchUnix/BSD/NextStep/MacOSX

./ResearchUnix/BSD/NextStep/MacOSX/Year

./ResearchUnix/BSD/Year

./ResearchUnix/BSD/FreeBSD

./ResearchUnix/BSD/FreeBSD/Year

./ResearchUnix/Commercial

./ResearchUnix/Commercial/Solaris

./ResearchUnix/Commercial/Solaris/Year

./ResearchUnix/Commercial/Year

./ResearchUnix/Year

$ cat ResearchUnix/BSD/NextStep/Year

1988

$ cat ResearchUnix/Commercial/Solaris/Year

1991

$

You will probably want to check all the Year files to be sure of a high grade...

The order of output from find does not have to exactly match the example above.

But the directory structure under ResearchUnix must be precisely as described.

Details

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You may assume that a ResearchUnix directory does not pre-exist along side

UnixHistory.sh. In other words you don't a have to worry about error messages

because directories already exist.

Hints

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Recall that you run a script with

$ bash UnixHistory.sh

and you can see what a script is doing on the inside as it runs with the -x option.

$ bash -x UnixHistory.sh

In between testing runs of your script, use

$ rm -r ResearchUnix

to clear out the tree of directories.

Submission

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Submit your UnixHistory.sh script by uploading it to Canvas.

Rubric

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[2 pts] Name your script UnixHistory.sh

[2 pts] No output generated on success.

[21 pts] Directory tree created is correct

[1 pt] Correct submission

The exact name and case of the files/directories are important!

(e.g., UnixHistory.sh is NOT the same as unixhistory.sh and ResearchNix is not the same as ResearchUnix)