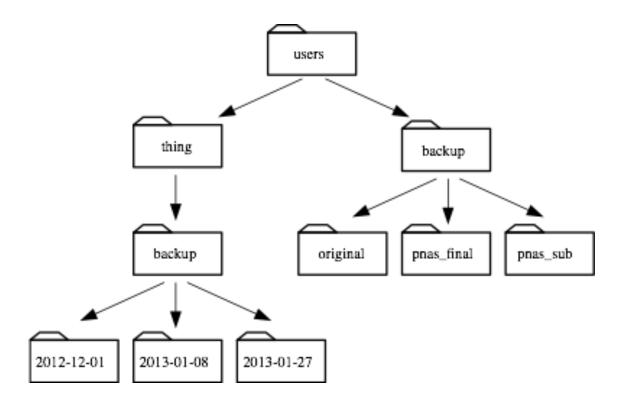


If pwd displays /users/thing, what will Is ../backup display?

- A. ../backup: No such file or directory
- B. 2012-12-01 2013-01-08 2013-01-27
- C. 2012-12-01/2013-01-08/2013-01-27/
- D. original pnas\_final pnas\_sub



If pwd displays /users/backup, and -r tells Is to display things in reverse order, what command will display:

pnas-sub/ pnas-final/ original/

- A. Is pwd
- B. Is -r -F
- C. Is -r -F /users/backup

# What does the command cd without a directory name do?

- A. It has no effect.
- B. It changes the working directory to /.
- C. It changes the working directory to the user's home directory.
- D. It produces an error message.

# What does the command **Is** do when used with –s and –h arguments?

- A. Lists only files that begin with s and h.
- B. Lists file sizes of files that begin with h.
- C. Lists ages of files in seconds.
- D. Lists file sizes in blocks.

### What is the output of the closing "ls"?

```
$ pwd
/home/jamie/data
$ ls
proteins.dat
$ mkdir recombine
$ mv proteins.dat recombine
$ cp recombine/proteins.dat ../proteins-saved.dat
$ ls
```

- A. proteins.dat
- B. proteins-saved.dat
- C. proteins.dat recombine
- D. recombine

#### Suppose that:

```
$ ls -F
analyzed/ fructose.dat raw/ sucrose.dat
```

What command(s) could you run so that the commands below will produce the output shown?

```
$ ls
analyzed raw
$ ls analyzed
fructose.dat sucrose.dat
```

- A. mv fructose.dat analyzed mv sucrose.dat analyzed
- B cp fructose.dat analyzed cp sucrose.dat analyzed
- C. mv \*.dat analyzed

# What does **cp** do when given several filenames and a directory name, as in:

\$ mkdir backup
\$ cp thesis/citations.txt thesis/quotations.txt backup

- A. Copies both .txt files into backup/
- B. Copies thesis/citations.txt onto thesis/quotations.txt, ignores backup
- C. Copies thesis/citations.txt onto thesis/ quotations.txt and into backup /

# What does **cp** do when given three or more filenames, as in:

```
$ ls -F
intro.txt methods.txt survey.txt
$ cp intro.txt methods.txt survey.txt
```

- A. Copies intro.txt files over methods.txt and survey.txt
- B. Gives an error message and doesn't do anything
- C. Copies intro.txt files over methods.txt and copies methods.txt over survey.txt

### How can we sort

and get | \$ 2 | 6 | 10 | 19 | 22

- A. sort file.txt
- B. sort -n file.txt
- C. Sort –number file.txt
- D. Either A or B

# How many lines are in the output from running uniq on

coho coho steelhead coho steelhead steelhead

A. 2

B. 4

#### A file called animals.txt contains the following data:

```
2012-11-05, deer
2012-11-05, rabbit
2012-11-05, raccoon
2012-11-06, rabbit
2012-11-06, deer
2012-11-06, fox
2012-11-07, rabbit
2012-11-07, bear
```

```
cat animals.txt | head -5 | tail -3 | sort -r > final.txt
```

#### What's the first line in final.txt?

- A. 2012-11-05, deer
- B. 2012-11-07, bear
- C. 2012-11-05-raccoon
- D. 2012-11-06-rabbit

#### The command:

```
$ cut -d , -f 2 animals.txt
```

produces the following output:

```
deer
rabbit
raccoon
rabbit
deer
fox
rabbit
bear
```

What can we do with the output to get a list of animals with no duplicates?

- A. | sort
- B. | uniq | sort
- C. | uniq
- D. | sort | uniq

#### Suppose that 1s initially displays:

```
fructose.dat glucose.dat sucrose.dat
```

What is the output of:

```
for datafile in *.dat
do
    ls *.dat
done
```

- A. fructose.dat glucose.dat sucrose.dat
- B. fructose.dat glucose.dat sucrose.dat fructose.dat glucose.dat sucrose.dat fructose.dat glucose.dat sucrose.dat
- C. fructose.dat glocuse.dat sucrose.dat

In the same directory, what does this loop do?

```
for sugar in *.dat
do
    echo $sugar
    cat $sugar > xylose.dat
done
```

- A. Prints fructose.dat, glucose.dat, and sucrose.dat, and copies sucrose.dat to create xylose.dat.
- B. Prints fructose.dat, glucose.dat, and sucrose.dat, and concatenates all three files to create xylose.dat.
- C. Prints fructose.dat, glucose.dat, sucrose.dat, and xylose.dat, and copies sucrose.dat to create xylose.dat.

### What is the output of

```
for left in 2 3
do
for right in $left
do
expr $left + $right
done
done
```

```
A. 2436
```

B. 23

C. 46

D. 55

```
$ expr 3 + 5
8
$ expr 30 / 5 - 2
4
```

```
Suppose that 1s initially displays:

fructose.dat glucose.dat sucrose.dat
```

### What would bash example.sh \*.dat produce for example.sh

```
# Script 1
echo *.*
```

- A. fructose.dat glucose.dat sucrose.dat
- B. fructose.dat glucose.dat sucrose.dat fructose.dat glucose.dat sucrose.dat fructose.dat glucose.dat sucrose.dat
- C. fructose.dat glucuse.dat sucrose.dat

```
Suppose that 1s initially displays:

fructose.dat glucose.dat sucrose.dat
```

### What would bash example.sh \*.dat produce for example.sh

```
# Script 2
for filename in $1 $2 $3
do
cat $filename
done
```

- A. Prints the contents of fructose.dat, glucose.dat and sucrose.dat
- B. Prints the contents of fructose.dat, glucose.dat and sucrose.dat, 3 times
- C. Combines fructose.dat and glucose.dat and overwrites them into sucrose.dat

Grep –v junk file.txt finds lines which don't contain "junk".

Which of the following commands will find all files in /data whose names end in ose.dat (e.g., sucrose.dat or maltose.dat), but do *not* contain the word temp?

A. rm \$(find ./ -name '\*.tmp')

# How could you find and remove all of the .tmp files in your thesis/ directory and its subdirectories?

- A. rm \$(find ./ -name '\*.tmp')
- B. rm \*.tmp
- C. find ./ -name '\*.tmp' | rm
- D. rm -i \$(find ./ -name '\*.tmp')