title: The Unix Shell subtitle: Shell Scripts

ANSWERS

Exercises

Challenge 1

Write a shell script called backup.sh in my_files/ that backs up all of the files with a certain extension to a backup folder specified by the user. The user should supply two arguments, the first being the extension and the second being the name of the backup folder to use. For example, the command bash backup.sh TXT my_backup would copy all files ending in .TXT from the current folder to the folder my_backup.

```
for filename in *.$1
do
cp $filename $2/original-$filename
done
```

Challenge 2

Write a shell script called longest.sh in my_files/ that takes the name of a directory and a filename extension as its parameters, and prints out the number of lines and name of the file with the most lines in that directory with that extension. For example:

```
> bash my_files/longest.sh /tmp/data pdb
```

would print the name of the .pdb file in /tmp/data that has the most lines.

```
cd myfiles echo 'wc -l "$1"/*."$2" | sort -n | tail -2 | head -1' > longest.sh
```

Watch out for single and double quotes!

Challenge 3

What happens if you rename example.sh to example.R?

It still runs because you're claiming it as a bash script when you type bash before the name of the file.