A Unix user (with the BASH shell) sets up a file containing the following commands, and ensures it is executable:

```
echo $1 $2
mv $1 $1.temp
mv $2 $1
mv $1.temp $2
```

The user at the next terminal sets up a file that is very similar, but which uses cp rather than mv. Describe the behaviour each can expect when they use these files as command scripts. Assuming that the files concerned are both called sw, explain carefully the consequences of such uses as

```
sw somefile somefile
sw firstfile.temp secondfile.temp
sw only/one.file
```

```
[7 marks]
```

In another file, called de (say) the following commands exist:

```
echo $# files >> de.info
for n in $*
    do
        echo $n >> de.info
        mv $n backup/$n
        done
```

What do the various substitutions (involving '\$' signs) do in this case? Given that '>>' is much like '>' but appends new data to an existing file rather than creating a new one, what will build up in de.info over the course of time? Discuss the effect of issuing the command "de *". [7 marks]

Many Unix commands, for example xlsfonts and even just ls, can generate more output than will fit on the screen at once. Give a brief account of (a) how to use more to inspect the output and (b) how to collect a copy of the output in a file for inspection using a text editor. Write a shell script that will run ls with the -l flag (to get a full detailed listing of file sizes and dates) on one or more directories, will collect all the output in a single temporary file, enter an editor to allow you to inspect the information you have gathered and at the end get rid of the temporary file. [6 marks]