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ANSWERS TO EVEN-NUMBERED EXERCISES

2. How would you use `kill` to cause a server process to reread its configuration files?

The following command sends a HUP signal to the server, causing it to reread its configuration files:

```
$ sudo kill -HUP pid
```

where *pid* is the PID number of the server process.

4. How would you notify users that you are going to reboot the system in ten minutes?

The following command notifies all logged-in users of your intentions:

```
$ wall  
The system will be rebooted in 10 minutes.  
CONTROL-D
```

Alternatively, you could use the next command, which notifies users and schedules the shutdown:

```
$ sudo /sbin/shutdown -r +10
```

6. If the system is less responsive than normal, what is a good first step in figuring out where the problem is?

Run `top` to see if a process is using close to 100 percent of the CPU. If there is one, contact its owner or just kill the process. The user can restart the process with `nice` if necessary.

8. Working with **root** privileges, you are planning to delete some files but want to make sure that the wildcard expression you use is correct. Suggest two ways you could make sure you delete the correct files.
 - a. Give the `rm` command with the `-i` flag and confirm each deletion.
 - b. Before giving the command, replace `rm` with `echo` on the command line. The shell expands the wildcards and you can see which files will be deleted.
 - c. Redirect the output of `ls` with the wildcard expression to put the names of the files you want to delete in a file (named, for example, `deleteme`). Once you have verified the filenames listed in the file are correct, give the following command:

```
$ sudo rm $(cat deleteme)
```

See page 416 for information on command substitution.