

# Answers to Even-Numbered Exercises

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# 2

*from page 58*

1. The following error message is displayed when you attempt to log in with an incorrect username *or* an incorrect password:

`Login incorrect`

This message does not indicate whether your username, your password, or both are invalid. Why does it not tell you?

2. Give three examples of poor password choices. What is wrong with each? Include one that is too short. Give the error message displayed by the `passwd` utility.

See page 41 for `passwd` error messages. Examples of poor password choices are

`pizza` word in the dictionary

`tom` login name

`aqbfgya` does not contain a number

`5q` too short

3. Is `fido` an acceptable password? Give several reasons why or why not?

4. When you start `pico` and your screen looks strange, what might be wrong? How can you fix it?

Your `TERM` shell variable is probably not set or is set to an incorrect value. For more information, refer to “Specifying Your Terminal” on page 1402.

5. How can you get help from `pico` while you are using it?
6. What `pico` command(s) would you use to

- a. Delete a line

Using the `ARROW` keys, move the cursor to the beginning of the line you want to delete. Then press `CONTROL-K`.

- b. Undo your last command

`CONTROL-U` uncuts (pastes) the most recently cut (`CONTROL-K`) text at the cursor location.

- c. Leave the `pico` editor

`CONTROL-X` closes `pico`.

7. What are the differences between the `cat` and `ls` utilities? What are the differences between `less` or `more` and `cat`?

8. What is special about the shell special characters? How can you cause the shell to treat them as regular characters?

The shell treats special characters differently from regular characters. You must quote a special character to cause the shell to treat it as a regular character. You can quote a special character by preceding it with a backslash (`\`) or enclosing it within single quotation marks. See page 55 for more information.

9. Experiment with the `xman` utility to answer the following questions:

- a. How many man pages are in the `Devices` section of the manual?
- b. What version of `xman` are you using?
- c. What happens when you search for a man page that does not exist?

**Advanced Exercises**

10. Four of the following five filenames contain special characters:

```
"\abc
"abc"
'abc'
ab*c
abc
```

- a. Show how to create files with these names.

```
$ touch "\abc "abc" 'abc\' ab*c abc
$ ls
abc 'abc' "\abc "abc" ab*c
```

- b. Give commands to remove the first four files, leaving only **abc**.

```
$ rm \'* \"* ???
$ ls
abc
```

11. You saw that `man` pages for `write` appear in sections 1 and 2 of the system manual. Explain how you can determine what sections of the system manual contain a manual page with a given name.

- Using `man`
- Using `xman`

Which do you think makes this task easier: `man` or `xman`? Explain.

12. How many `man` pages are in the `Devices` subsection of the system manual? (*Hint: Devices is a subsection of Special Files.*)

Approximately 95. You can come up with this number by counting the entries in section 4 using `xman`. Or you can count the files in `/usr/share/man/man4` and `/usr/X11R6/man/man4`.