

# 【Linux Programming】 Day2(2)

▼ Class	Understanding Linux/Unix Programming
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## 【Ch1】 Unix Systems Programming: The Big Picture(4)

### 1.6 Can I try to do one?

In this section, we write a version of the Unix `more` program.

*First, what does `more` do?*

`more` displays a file one screenful at a time. We may press the space bar to see the next page, the Enter key to see the next line, the letter `q` to quit, and press `h` to see the help screen.

The three ways to invoke `more` from the command line are as follows:

```
$ more filename  
$ command | more  
$ more < filename
```

In the first case, `more` displays the contents of the named file.

In the second case, the program specified by command runs, and its output is displayed page by page.

In the third case, `more` displays the contents of what it reads from standard input. Standard input happens to be attached to the specified file.

*Second, how does `more` work?*

We can guess that the logic probably goes something like this:

```
+----> show 24 lines from input
| +--> print [more?] message
| |   Input Enter, SPACE, or q
| +-- if Enter, advance one line
+---- if SPACE
      if q --> exit
```

If the user specifies a filename on the command line, we **read from that file**. If no filename is specified, the program **reads from standard input**.