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2. Commands

Below you will find a cheat-sheet with vi commands. This cheat sheet will also come in handy in the next section of this document,
Practice Lesson #1.

```
vi cheat-sheet

a. cursor movements (items below are sometimes called objects):
      h - left one character
      l - right one character
      j - down one line
      k - up one line
      w - right one word
      b - back one word
      $ - to the end of line
      0 - to the beginning of the line
      ) - right one sentence
      ( - left one sentence
      } - right one paragraph
      { - left one paragraph
      Ctrl-F - forward one page
      Ctrl-B - back one page
      G - go to (without arguments, go to end of file)
b. deleting:
      d - delete
                      then  add  one  of  the  cursor  movement  symbols  to
            show what should be deleted, i.e.:
            d$ - delete to end of line
                              d0 - delete to the beginning of the line
            d} - delete to the end of paragraph
      dd - delete delete (delete the whole line)
      x - delete character cursor is on
c. other basic commands:
      r - replace one character
            ZZ - save and exit (hold down shift and press "z" twice)
      y - yank (copy into temporary buffer)
                  then add cursor movement symbol to show what should be
                  copied, for example: y) - copy to the end of sentence
      Y - yank line cursor is on
            p - paste below cursor line (deleted or copied text)
      P - paste above cursor line
      u - undo last editing command
      /sometext - search for "sometext"

d. any command can take numeric argument before the name of "object", i.e.:
          5dd - delete 5 lines beginning with cursor line (or) d5d - same
```

```
          2dw - delete two words (or) d2w - delete two words
          c3w - change 3 words
          3Ctrl-B - move up three pages
          1G - go to the first line
```
e. external commands can be performed on the selected text (in lines) if command is started with "!", i.e.:
```
          !}fmt - reformat paragraph to 72 columns
```
f. command line (sometimes called "ex mode"):
```
          :
```
g. from the command line a "set" command can be executed to customize editing environment, i.e.:
```
          :set all - will show the state of all options
              :set number - will show on the screen numbers of all lines
          :set autoindent   // obvious
```
h. from the command line operations can be performed on the range of lines, i.e.:
```
          :18,24 del - delete from line 18 to line 24
              :23,48 copy 17 - block from line 23 to 48 copy to line 17
                :2,17 move 92 - block from line 2 to 17 move to line 92
```
i. from the command line any external UNIX command can be performed on the range of lines if line range is superseded by "!":
```
          :11,16! sed -e "s/^//*/" -e "s/$/*//"

                            (the command above wraps the block of text with
                        "C" style comments - /* text */.  It can be done
              easier, but this is an example)
          :14,19! sort -r +3
                            (sort the table in reverse order by fourth column)
```
j. file manipulation from the command line:
```
          :r somefile - read in "somefile"
             :x - save and exit (if file is "Read Only", this command will
                exit without saving)
          :wq - write and quit (same as above)
          :w - write (save) if the file permissions allow it
             :w! - save file even if it is read-only as long as we own it
          :w somefile - save this file as "somefile"
          :q - quit without saving
          :q! - quit without saving if changes were made
```
k. text input commands (all require "Esc" to terminate):
```
          i - insert text before the character cursor is on
          I - insert text at the beginning of the line
             a - append (insert text after the character cursor is on)
          A - append text to the end of the line
          c - change (replace previous text with new one)
                     takes arguments just like the delete command - it is
                     a fast and powerful way of changing original text -
              much more so than typical "overwrite"

          R - start overwriting text
             o - start entering text at the beginning of the new line
           below the cursor
             O - start entering text at the beginning of the new line
           above the cursor
```
l. if in doubt, press "Esc"

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